# **DESIGN SPECIFICATIONS**

# HAZELWOOD INTERIM STORAGE SITE (HISS) – MAIN PILE REMOVAL ACTION PHASE 2

ST. LOUIS, MISSOURI

Solicitation No. DACW43-01-R-0702

**JULY 2001** 



U.S. Army Corps of Engineers St. Louis District Office Formerly Utilized Sites Remedial Action Program

# **Table of Contents**

# **Contract Requirements**

Cover

Standard Form 33 Solicitation, Offer and Award

Section B Supplies or Services and Prices/Costs
Section C Description/Specs./Work Statement

Submittal Registers follow Section 01330

Section E Inspection and Acceptance
Section F Deliveries or Performance
Section H Special Contract Requirements

Section I Contract Clauses
Section J List of Attachments

Wage Determination 94-2309

**Design Authentication** 

Section K Representations, Certifications and Other

Statements of Offerors

Section L Instructions, Conditions, & Notices to Offerors

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X E INSPECTION AND ACCEPTAN	CE	1	.,	F	REPRESENTAT				COLIONS	
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# SECTION B Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	<u>UNIT</u>	UNIT PRICE	<u>AMOUNT</u>
0001	Mobilization and Preparatory Work	1.00	Lump Sum	XXX	\$
0002	Monitoring, Sampling, Testing, and Analysis	1.00	Lump Sum	XXX	\$
0003	Site Work	1.00	Lump Sum	XXX	\$
0004 thru 0007	NOT USED				
8000	Main Pile Removal	8,080.00	Cubic Yard	\$	\$
0009 thru 0018	NOT USED				
0019	Disposal - Rail Transportaton	10,500.00	Cubic Yard	\$	\$
0020	Site Restoration	1.00	Lump Sum	XXX	\$
0021	Demobilization	1.00	Lump Sum	XXX	\$
		TOTAL	_ ABOVE ITEM	IS	\$

#### **BIDDING SCHEDULE NOTES**

- 1. All quantities shown on the SUPPLIES OR SERVICES AND PRICE/COSTS are estimated quantities except when the unit is shown as Lump Sum.
- The Item No. Descriptions coincide with the U.S. Army Corps of Engineers Work Breakdown Structure for Hazardous and Toxic Remediation Wastes (HTRW-WBS). Only those features anticipated to be required are used and listed.
- 3. MOBILIZATION AND PREPARATORY WORK, Item No. 0001, includes submittals and implementation plans, mobilization of personnel, facilities and construction equipment, setup and construction of temporary facilities, temporary utilities, required training and institutional controls.
  - a. Submittals and Implementation Plans includes all work associated with the preparation, review, and submittal of all required plans as designated in the Contract Documents and any local, state and federal permits.
  - b. Mobilization of Personnel includes relocation of supervisory personnel and workmen.
  - c. Mobilization of Construction Equipment includes preparation of equipment for transport, equipment transportation and setup, manifests, tolls, permits, escort vehicles, drivers and equipment operators.
  - d. Setup and Construction of Temporary Facilities includes preparation of the contractor laydown/storage area, the procurement, setup and construction of office trailers, emergency and decontamination facilities, access roads, facilities, staging areas and other temporary facilities.
  - e. Temporary Utilities are power and lighting, telephone, water, sewer and gas services to be in place only during this construction contract.
  - f. Required Training for Contractor Employees includes the training described in Section 01130
     ENVIRONMENTAL PROTECTION, Paragraph 3.8.
  - g. Institutional Controls include all measures required to protect the public health and safety, such as posting warning signs, placing fencing around the site, etc.
- 4. MONITORING, SAMPLING, TESTING AND ANALYSIS, Item No. 0002, includes two features: (1) All equipment, labor and materials associated with executing the Safety, Health and Emergency Response (HTRW) plans required in SECTIONS 01130 and 01351; and (2) all such work in compliance with applicable regulations required to verify and ensure that the waste shipped for disposal meets the applicable, acceptance criteria established by Envirocare of Utah or another licensed disposal facility, as approved by the Contracting Officer or their representative.
- 5. SITEWORK, Item No. 0003, includes site preparation, site development and site maintenance associated with and required for the removal of the Main Pile.
  - a. Site Preparation includes protection of monitoring wells, utilities and manholes and other associated activities.
  - b. Site Development includes all work to divert and collect storm and surface water flows, and to control erosion by means of the storm water and sediment control system,

drainage ditching and swales, silt fencing, erosion matting, construction of berms to collect runoff, and other erosion control measures, as required.

- c. Site Maintenance includes radiologically monitoring and maintenance of the Haul Road.
- 6. MAIN PILE REMOVAL, Item No. 0008, includes all work to completely remove and load the contaminated waste material, and liners and geonets by front-end loader, backhoe or other mechanical means to the railroad cars. This item shall also include all work to provide, remove and replace a tarp to protect the pile and all open/disturbed areas during removal activities.
- 7. DISPOSAL RAIL TRANSPORTATION (COMMERCIAL), Item No. 0019, provides for the final placement of waste at third party commercial facilities that charge a fee to accept waste, and includes transportation to the final disposal facility. Disposal fees are not part of this contract. All work and costs involved with the transportation, by rail, to the disposal site are to be included in Item No. 0019, DISPOSAL RAIL TRANSPORTATION, as further defined in the Measurement and Payment Clause.
- 8. SITE RESTORATION, Item No. 0020, includes installation of (new) separation/filtration geotextile material, the importation and placement of clean topsoil, fine grading, and revegetation.
- 9. DEMOBILIZATION, Item No. 0021, includes the takedown and removal of temporary facilities and utilities, the cleaning and decontamination of equipment, preparation of as-built drawings, and all activities for transporting equipment from the site.

Activity	Material Determination	Material Disposition	Payment
Removal of Main Pile (low-level	none	All loaded	0008 – Main Pile
contaminated soil)			Removal

**END OF SECTION B** 

# SECTION C TABLE OF CONTENTS

SECTION 01010 – Summary of Work	3 Pages
SECTION 01025 – Measure and Payment	2 Pages
SECTION 01130 – Environmental Protection	9 Pages
SECTION 01330 – Submittal Procedures	4 Pages
Submittal Registers	7 Pages
SECTION 01351 - Safety, Health, and Environmental Response (HTRW)	40 Pages
Example Certificate of Worker/Visitor Acknowledgement	2 Pages
SECTION 01440 – Contractor Quality Control	8 Pages
SECTION 01500 – Temporary Construction Activities	5 Pages
SECTION 01565 – Storm Water Pollution Prevention Measures	7 Pages
SECTION 02120 – Transportation of Hazardous Materials Requirements	12 Pages
SECTION 02221 - Soil Removal	4 Pages
Sample Field Safety Checklist	1 Page
SECTION 02272 – Separation/Filtration Geotextile	3 Pages
SECTION 02935 - Sod	3 pages

#### **SECTION 01010**

#### **SUMMARY OF WORK**

#### PART 1 GENERAL

#### 1.1 SITE LOCATION

The project location is at the Hazelwood Interim Storage Site (HISS), St. Louis County, Missouri. Location of the project is shown on the Location Map of the contract drawings.

# 1.2 WORK COVERED BY CONTRACT DOCUMENTS

# 1.2.1 Phases of Work

Without intending to limit or restrict the extent of work required, the work generally comprises removal, transportation, and disposal of radiologically contaminated material located in the Main Pile, and engineering controls to control offsite spread of contamination from the HISS site.

# 1.2.2 Drawings

The following listed drawings accompany the technical specifications:

Drawing No.	<u>Drawing Title</u>
	Cover Sheet
G-1	Location Map and Index of Drawings
C-1	Existing Site Plan
C-2	Final Grading Plan
C-3	Cross Sections
C-4	Erosion Control and Miscellaneous Details

# 1.3 COORDINATION AND INTERFERENCES

# 1.3.1 Minor Interferences and Obstructions

The drawings are generally indicative of the Work and as such cannot show actual field conditions. Measures shall be taken to address minor interferences with surface and subsurface obstructions as part of the Work.

# 1.3.2 Interfacing with Existing Site Conditions

- a. Site access control shall be maintained at all times to prevent unauthorized entry to Work areas and adjacent areas of the site that are accessible through the existing gate at Latty Ave.
- b. The Contractor shall provide proper signage and barricades when conducting Work in accordance with local, state, and federal requirements, or other authorities having jurisdiction.
- c. The Contractor is responsible for verifying actual location and grade as needed for this project. Problems shall be brought to the attention of the USACE.

# 1.4 REQUIREMENTS OF REGULATORY AGENCIES

The Contractor at all times shall observe and comply with all Federal and state laws and regulations, and local bylaws, ordinances and regulations in any matter affecting the conduct of the Work or applying to employees on the project, as well as safety precautions and orders or decrees which have been promulgated or enacted, or which may be promulgated or enacted, by legal bodies or tribunal having authority or jurisdiction over the Work, materials, equipment, or employees. The duty of enforcement of all said laws, or ordinances, regulations, orders or decrees lies with the body or agency promulgating them.

#### 1.4.1 Utilities

If during execution of Work, telephone, electric, television cables, gas, oil, water, sewer or communication lines are encountered, no excavation shall be done around those lines without the presence of any authorized representative from the authority having jurisdiction.

# 1.5 CONTRACTOR USE OF SITE

The Contractor will have full access of the site designated on the Contract Drawings as being within "Contract Limits". All support facilities, trailers and staging areas required for completion of the Work shall be contained within the designated "Contract Limits".

#### 1.6 COMMON ACRONYMS

ALARA As Low As Reasonably Achievable
ANSI American National Standards Institute

APP Accident Prevention Plan

ARAR Applicable or Relevant and Appropriate Requirements

ASTM American Society for Testing and Materials

CERCLA Comprehensive Environmental Response, Compensation, & Liability Act

CFR Code of Federal Regulations
CHP Certified Health Physicist
CIH Certified Industrial Hygienist
CQC Contractor's Quality Control

CY Cubic Yard

DAC Derived Air Concentration

EE/CA Engineering Evaluation/Cost Analysis

EM Engineering Manuals

EPA Environmental Protection Agency

FIO For Information Only

FUSRAP Formerly Utilized Sites Remedial Action Program

GA Government Approval

HISS Hazelwood Interim Storage Site

HTRW Hazardous, Toxic, and Radiological Wastes MDNR Missouri Department of Natural Resources

MSDS Material Safety Data Sheets

NIOSH National Institute for Occupational Safety and Health NPDES National Pollutant Discharge Elimination System

NRC Nuclear Regulatory Commission

OP Occupational Physician

OSHA Occupational Safety and Health Administration

O&M Operations and Maintenance

PCi/g picoCuries per gram

PDI Pre-Design Investigation Report

POV Privately-Owned Vehicle
PPE Personal Protective Equipment

RCRA Resource Conservation and Recovery Act of 1976

SSHO Site Safety and Health Officer SSHP Site Safety and Health Plan

SZ Support Zone

TDC Transportation and Disposal Coordinator

TSD Treatment, Storage, or Disposal

USACE United States Army Corps of Engineers

# **PART 2PRODUCTS**

(Not Applicable)

# **PART 3EXECUTION**

(Not Applicable)

# **END OF SECTION 01010**

# **SECTION 01025**

# **MEASUREMENT AND PAYMENT**

#### PART 1 GENERAL

#### 1.1 REFERENCES

None.

# 1.2 LUMP SUM PAYMENT ITEMS

Payment items for the work of this contract for which contract lump sum payments will be made are listed in the BIDDING SCHEDULE and described below. All costs for items of work, which are not specifically mentioned to be included in a particular lump sum or unit price payment item, shall be included in the listed lump sum item most closely associated with the work involved. The lump sum price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment; and performing any associated Contractor quality control; ensuring environmental protection; meeting safety requirements; conducting tests and reports; and performing all work required for which separate payment is not otherwise provided.

# 1.2.1 Mobilization and Demobilization

- a. Payment will be made for all costs associated with the mobilization and preparatory work bid item, including training costs, as specified in Section B, Note 3.
- b. Unit of measure Lump Sum.

# 1.2.2 Monitoring, Sampling, Testing and Analysis

- a. Payment will be made for all costs associated with the monitoring, sampling, testing and analysis work, as specified in Section B, Note 4.
- b. Unit of measure Lump Sum.

# 1.2.3 Site Work

- a. Payment will be made for all costs associated with the site work, as specified in Section B, Note 5.
- b. Unit of measure Lump Sum.

# 1.2.4 Site Restoration

- a. Payment will be made for all costs associated with the site restoration, as specified in Section B, Note 8.
- b. Unit of measure Lump Sum.

# 1.2.5 Demobilization

- a. Payment will be made for all costs associated with demobilization, as specified in Section B, Note 9.
- b. Unit of measure Lump Sum.

#### 1.3 UNIT PRICE PAYMENT ITEMS

Payment items for the work of this Contractor on which the contract unit price payments will be made are listed in the BIDDING SCHEDULE and described below. The unit price and payment made for each item listed shall constitute full compensation for furnishing all labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for each of the unit price items.

# 1.3.1 Main Pile Removal

- a. Payment Payment will be made for all costs associated with the removal of waste from the Main Pile, as specified in SECTION 02221. The amount paid for will be the actual number of cubic yards of material, measured in its original position and removed from the pile, which is acceptably disposed of as herein specified. The measurement will not include the yardage removed without authorization or the yardage of any material not disposed of at Envirocare of Utah. The measurement will not include the amount of any removal performed prior to the taking of elevations and measurements of the undisturbed grade. The measurements will not include any grading or earthmoving required to construct temporary storage facilities or control drainage.
- b. Unit of Measure cubic yard (in situ). The unit of measurement for removal will be inplace cubic yards, computed by the difference in topographic surveys taken by the Government before and after the removal of the Main Pile.

# 1.3.2 Disposal – Rail Transportation

- a. Payment Payment will be made for all costs associated with the transportation of the waste. Disposal fees are not part of this contract. All work and costs involved with the transportation, by rail, to the disposal site are to be included in this item.
- b. Unit of Measure Ex-situ cubic yards as measured in the rail cars.

# **PART 2PRODUCTS**

(Not Applicable)

# PART 3 EXECUTION

(Not Applicable)

**END OF SECTION 01025** 

# **SECTION 01130**

# **ENVIRONMENTAL PROTECTION**

# PART 1 GENERAL

#### 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

Documents provided as attachments to Contract DACW43-00-C-0430, Supplemental Pile Removal, apply to this contract and will not be provided as attachments to this contract.

# Code of Federal Regulations (CFR)

40 CFR Part 61	National Emission Standards for Hazardous Air Pollutants
40 CFR Part 82	Protection of Stratographic Ozone *
40 CFR Part 110	Discharge of Oil *
40 CFR Part 112	Oil Pollution Control Program *
40 CFR Part 122	EPA Administered Programs: The NPDES
40 CFR Part 258	Criteria for Municipal Solid Waste Landfills
40 CFR Part 260	Hazardous Waste Management System: General *
40 CFR Part 261	Identification and Listing of Hazardous Waste *
40 CFR Part 262	Standards Applicable to Generators of Hazardous Waste *
40 CFR Part 273	Standards for Universal Waste Management
40 CFR Part 279	Standards for Management of Used Oil
40 CFR Part 302	Designation, Reportable Quantities, and Notification *
40 CFR Part 355	Emergency Planning and Notification
40 CFR Part 370	Hazardous Chemical Report: Community Right To Know
10 CFR 20 Appendix B,	, Table 2, Column 1 and 2 - Regarding Compliance with Dose Limits for
	Individual Members of the Public

<sup>\*</sup> Only applicable or relevant and appropriate if specific chemical, action or de minimus levels of chemical require compliance.

# State Requirements

NPDES Permit - MO-0111252

Restriction of Emission of Visible Air Contaminants
Control of Petroleum Liquid Storage, Loading and Transfer
Restriction of Particulate matter to the Ambient Air Beyond the Premises
of Origin
Storm Water Regulations
Water Quality Standards
Hazardous Substance Emergency Response Office and Emergency
Planning and Community Right to Know Act
Recycled Used Oil Management Standards
Solid Waste Management

# Engineering Manuals (EM)

EM 385-1-1 (1996) U.S. Army Corps of Engineers Safety and Health Requirements

Manual

# **Applicable Documents**

FUSRAP Air Sampling, Handling and Analysis Instruction, Rev. 1 – SAFETY, HEALTH AND EMERGENCY RESPONSE)

"Sampling and Analysis Guide", Draft, 1999 (SAG) – SAFETY, HEALTH AND EMERGENCY RESPONSE)

"Environmental Monitoring Implementation for the St. Louis Sites for FY00", Dec. 1999 (EMIFY00)

"Data Management Process for the St. Louis FUSRAP Sites", Draft, Jan. 2000 – SAFETY, HEALTH AND EMERGENCY RESPONSE)

# 1.2 DEFINITIONS

Environmental pollution and damage is defined as the presence of radiological, chemical, physical, or biological elements or agents that adversely affect human health or welfare; unfavorably alter ecological balances of plant or animal communities; or degrade the environment from aesthetic, cultural or historic perspective. Environmental protection is the prevention/control of pollution and habitat disruption that may occur during construction. The control of environmental pollution and damage requires consideration of air, water, land, biological and cultural resources; and includes management of visual aesthetics; noise; solid, chemical, gaseous, and liquid waste; radiant energy and radioactive materials; and other pollutants.

# 1.3 SUBMITTALS

Government approval is required for all submittals with a "GA" designation; submittals having and "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330, Submittal Procedures:

# SD-08 Statements

**Protection of Features; FIO** – Information to be included in this submittal is detailed in paragraph 1.4.1 below.

**Environmental Protection Plan; GA** – The Environmental Protection Plan shall contain the information as described in paragraph 1.5 of this section.

**Stormwater and Sediment Control Plan; GA** - The Storm Water and Sediment Control Plan shall contain the information as described in paragraph 1.5.6 and 3.6 of this section.

**Waste Minimization Plan; GA** – Information to be included in this submittal is defined in paragraph 1.5.3 of this section. This plan shall be submitted as part of the Waste Management Plan as described in Section 02120 - TRANSPORTATION OF HAZARDOUS MATERIALS.

**Used Oil Management Procedure; GA** – Information to be included in this submittal is listed in paragraph 3.1.5 of this section.

# 1.4 ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor shall comply with all applicable Federal, State, and local laws and regulations. The Contractor shall provide environmental protective measures and procedures to prevent and control pollution, limit habitat disruption, and correct environmental damage that occurs during construction. Safety and health documents and procedures for hazardous, toxic, and radioactive

waste (HTRW) site activities are specified in Section 01351 – SAFETY, HEALTH, AND EMERGENCY RESPONSE (HTRW).

#### 1.4.1 Protection of Features

This section supplements the Contract Clause PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS. The Contractor shall prepare a list of features requiring protection under the provisions of the contract clause which are not specially identified on the drawings as environmental features requiring protection. The Contractor shall protect environmental features in spite of interference their preservation may cause to the Contractor's work under this Contract.

# 1.4.2 Permits

This section supplements the Contractor's responsibility under the contract clause PERMITS AND RESPONSIBILITIES to the extent that the Government has already obtained environmental permits. The Contractor shall comply with the terms and conditions of these permits. The Contractor shall also comply with other environmental commitments made by the Government. The Contractor is responsible for acquiring and complying with the existing permit terms and conditions as well as those other commitments made by the Government.

#### 1.4.3 Environmental Assessment of Contract Deviations

The Contract specifications have been prepared to comply with the special conditions and mitigation measures of an environmental nature which were established during the planning and development of this project. The Contractor is advised that deviations from the drawings or specifications (e.g., proposed alternate disposal areas, staging areas, alternate access routes, etc.) could result in the requirement for the Government to reanalyze the project from an environmental standpoint. Deviations from the construction methods and procedures indicated by the plans and specifications which may have an environmental impact will require an extended review, processing, and approval time by the Government. The Contracting Officer (or the designated representative) reserves the right to disapprove alternate methods, even if they are more cost effective, if the Contracting Officer or the designated representative determines that the proposed alternate method will have an adverse environmental impact.

# 1.5 ENVIRONMENTAL PROTECTION PLAN

Within 20 calendar days of Notice of Award, the Contractor shall submit an Environmental Protection Plan for review and acceptance by the Contracting Officer or the designated representative. The Government will consider an interim plan for the first 30 days of operations. However, the Contractor shall furnish an acceptable final plan not later than 30 calendar days after receipt of the Notice to Proceed. Acceptance is conditional and is predicated upon satisfactory performance during construction. The Government reserves the right to require the Contractor to make changes in the Environmental Protection Plan or operations if the Contracting Officer (or the designated representative) determines that environmental protection requirements are not being met. The plan shall detail the actions which the Contractor shall take to comply with all applicable or relevant and appropriate Federal, State, and local laws and regulations concerning environmental protection and pollution control and abatement, as well as the additional specific requirements of this contract. No physical work at the site shall begin prior to acceptance of the Contractor's plan or an interim plan covering the work to be performed. The Environmental Protection Plan shall include, but not be limited to, the information detailed below.

### 1.5.1 List of Federal, State and Local Laws and Regulations

The Contractor shall provide as part of the Environmental Protection Plan a list of all Federal, State and local environmental laws and regulations that apply to the construction operations under the Contract. This includes, but is not limited to, the ARARs listed in the HISS EE/CA and this specification. The plan should include details/procedures describing how the Contractor intends to comply with each respective ARAR.

# 1.5.2 Spill Control Plan

The Contractor shall include a Spill Control Plan as part of the Environmental Protection Plan. The plan shall include the procedures, instructions, and reports to be used in the event of an unforeseen spill of a substance regulated by the Emergency Response and Community Right-to-Know Act, 40 CFR 110, Subchapter C, 40 CFR 302, SPCC Plan as specified in 40 CFR 112 (provided the Contractor stores the de minimis levels as cited in the regulation - otherwise the Contractor will prepare a spill response plan for oils as defined in 40 CFR 110 and 40 CFR 112), 10 CSR 24, or under State or local laws or regulations. The Spill Control Plan supplements the requirements of EM 385-1-1. This plan shall include as a minimum:

- a. The name of the individual who will be responsible for implementing and supervising the containment and cleanup.
- b. Training requirements for Contractor personnel and methods of accomplishing the training.
- c. A list of materials and equipment to be immediately available at the job site tailored to cleanup work of the potential hazard(s) identified.
- d. The names and locations of suppliers of containment materials and locations of additional fuel oil recovery, cleanup, restoration, and material-placement equipment available in case of an unforeseen spill emergency.
- e. The methods and procedures used for expeditious contaminant cleanup.
- f. The name of the individual who will report any spills or hazardous substance releases and who will follow up with complete documentation. This individual shall immediately notify the Contracting Officer or the designated representative in addition to the legally required Federal, State, and local reporting channels (including the National Response Center 1-800-424-8802) if a spill occurs. The plan shall contain a list of the required reporting channels and telephone numbers.

#### 1.5.3 Waste Minimization Plan

The Contractor shall submit a Waste Minimization Plan as part of the Waste Management Plan required in Section 02120 – TRANSPORTATION OF HAZARDOUS MATERIALS. The plan shall detail the Contractor's action to comply with the following and waste minimization requirements:

- a. The Contractor shall demonstrate careful management of non-permeable covers to minimize the volume of potentially contaminated runoff that must be collected.
- b. Material Safety Data Sheets (MSDSs) will be evaluated prior to use onsite of any new hazardous chemical for potential waste management issues. Information regarding the quantity and intended use of the product may also be required.

#### 1.5.4 Contaminant Prevention Plan

As a part of the Environmental Protection Plan, the Contractor shall prepare a contaminant prevention plan identifying potentially hazardous substances to be used on the job site and intended actions to prevent accidental or intentional introduction of such materials into the air, water, or ground. The Contractor shall detail provisions to be taken to meet Federal, State, and local laws and regulations regarding the storage and handling of these materials. This plan shall also be coordinated with the requirements of paragraph 1.5.2 of this section and Section 01351 – SAFETY, HEALTH, AND EMERGENCY RESPONSE (HTRW) relating to engineering controls for dust suppression and water management.

# 1.5.5 Environmental Monitoring Plan

As part of the Environmental Protection Plan, the Contractor shall prepare an Environmental Monitoring Plan identifying the details of environmental monitoring requirements under the laws and regulations and a description of how this monitoring will be accomplished. The Environmental Monitoring Plan must include information on the number of air monitors to be used, their location, the data collection schedule, how they will be powered, and how they will be maintained. This plan shall also detail how dust control will be accomplished during the removal action, including after hours. No visible dust will be allowed on the site at any time. This plan shall be coordinated with the requirements of Section 01351 - SAFETY, HEALTH, AND EMERGENCY RESPONSE (HTRW) relating to ambient air monitoring and dust control. The Contractor shall perform work area perimeter air sampling (general area work zone perimeter) for airborne radionuclides using a minimum of three sampling locations and concentrations should be kept below the action levels as stated in Section 01351. If these action levels are exceeded, appropriate measures as described in the approved plan shall be taken. The monitoring will be conducted at all times during activities that may generate dust. These activities will include all heavy equipment use and loading of soil. Monitoring for air particulates, gamma radiation and radon is conducted at the site perimeter by others and another Contractor maintains the monitoring stations. The locations of the perimeter monitors are shown in Figure 3-1 of the EMIFY00. If monitoring that is done by others exceeds, or has the potential to exceed, the limits described in 10 CFR 20, Subpart B and 10 CFR 20.1101 the Contractor shall be required to take mitigative actions in the work zone.

The Contractor shall, at a minimum, locate monitors as described in this paragraph. The air particulate samples must be collected at the perimeter of the work zone. At least one air particulate sampler shall be upwind of the construction area and one shall be downwind. These air particulate samplers must be portable since they are subject to movement throughout operations when wind direction changes. Southerly winds predominate from May to November. Northwesterly winds predominate from December through April.

Refer to SECTION 01351 – SAFETY, HEALTH AND EMERGENCY RESPONSE for work area air particulate action levels.

# 1.5.6 Storm Water and Sediment Control Plan

The Contractor shall prepare, and maintain on site, a Storm Water and Sediment Control Plan as part of the Environmental Protection Plan. This plan shall be prepared using the requirements as contained in the Contract Drawings and Section 01565 – STORM WATER POLLUTION PREVENTION MEASURES of the contract specifications and in accordance with the requirements of the Missouri Department of Natural Resources relative to land disturbance activities and state requirements cited in paragraph 1.1 of this section, namely NPDES Permit MO-0111252, 10 CSR 20-6.010, and 10 CSR 20-7.031. NPDES Permit parameters are listed in

Section 01565 – STORM WATER POLLUION PREVENTION MEASURES. It is important to note that the current NPDES permit is under renewal and the Contractor will need to comply with any revisions to the permit.

#### PART 2 PRODUCTS

(Not Applicable)

#### PART 3 EXECUTION

#### 3.1 SPECIAL ENVIRONMENTAL PROTECTION REQUIREMENTS

# 3.1.1 Top Soil

The Contractor shall bring topsoil onto the site from a source approved by the USACE to meet the requirements for final grade of the site as shown on the Contract Drawings (see Section 02221 – SOIL REMOVAL).

The Contractor shall be allowed to bring gravel onsite for haul roads as described in Section 01500 – TEMPORARY CONSTRUCTION.

# 3.1.2 Soil Disposal Areas on Government Property

Hazardous, toxic, and radiological wastes (HTRW) shall not be disposed of on Government property. Supporting documentation may be required as necessary to prove non-hazardous, non-toxic or non-radioactive wastes are disposed of properly.

# 3.1.3 Disposal of Solid Wastes

Solid waste is rubbish, debris, uncontaminated waste materials, garbage, and other discarded solid materials (excluding clearing debris and hazardous waste as defined in the following paragraphs). Solid waste shall be placed in containers and disposed of on a regular schedule. All handling and disposal shall be conducted in such a way as to prevent spillage and contamination. The Contractor shall transport or subcontract transportation of all solid waste off the work site and dispose of it in compliance with Federal, State and local requirements.

# 3.1.4 Disposal of Contractor Generated Hazardous Wastes

Hazardous wastes are hazardous substances as defined in 40 CFR 261, or as defined by applicable State and local regulations. The Contractor shall evaluate and document the potential to generate a hazardous waste in their "Waste Minimization Plan". Management of potential hazardous wastes will be outlined in the "Waste Management Plan". In addition, all new chemicals arriving on site for use shall be evaluated for their potential to generate a hazardous waste. Hazardous waste generated as a result of the Contractor's operations shall be removed from the work area and be disposed in compliance with Federal, State, and local requirements. The Contractor shall segregate hazardous and radioactive waste from other materials and wastes in order to prevent the possibility of a mixed waste, and shall store it in accordance with all state and federal regulations (40 CFR 262, 40 CFR 264, and 10 CSR 25-7.264) as appropriate, and shall protect it from the weather by placing it in a safe covered location. Precautionary measures against accidental spillage such as berming or other appropriate measures shall be taken. Hazardous waste shall be removed from Government property within 60 days. Hazardous waste shall not be dumped onto the ground, into storm sewers or open watercourses, or into the

sanitary sewer system. Refer to Section 02120 – TRANSPORTATION OF HAZARDOUS MATERIALS.

#### 3.1.5 Fuels and Lubricants

Fueling and lubrication of equipment and motor vehicles shall be conducted in a manner that affords the maximum protection against spills and evaporation. Lubricants and used oil to be discarded shall be stored in marked corrosion-resistant containers and recycled or disposed in accordance with 10 CSR 25-11.279, Federal, State, and local laws and regulations. No fueling or lubrication of equipment or motor vehicles shall be conducted on site except in the approved construction laydown area. Fueling stations shall meet the requirements of 10 CSR 10-5.220. The Contractor shall submit for approval a procedure outlining requirements which verify that oils, fuels, lubricants, etc. used in construction equipment in the Contractor's work zone are not radioactively contaminated. The Contractor shall be responsible for the management and disposition of waste oil and used oil that is generated.

# 3.2 HISTORICAL, ARCHAEOLOGICAL, AND CULTURAL RESOURCES

If during construction activities, items are observed that may have historic or archaeological value (e.g., Native American human remains or associated objects are discovered), such observations shall be reported immediately to the Contracting Officer (or the designated representative) so that the appropriate authorities may be notified and a determination made as to their significance and what, if any, special disposition of the finds should be made. It is not anticipated that any items will be found during this removal action. The Contractor shall cease all activities that may result in impact to, or the destruction of, these resources. The Contractor shall prevent his employees from trespassing on, removing, or otherwise disturbing such resources.

# 3.3 PROTECTION OF WATER RESOURCES

The Contractor shall keep construction activities under surveillance, management, and control to avoid pollution of surface and ground waters and protection of existing monitoring wells, air sampling stations, and NPDES monitoring locations.

# 3.3.1 Storm Water Runoff from Project Area

Storm water directly derived from Main Pile removal activities shall be collected and held as described in Section 01565 – STORMWATER POLLUTION PREVENTION MEASURES. The Contractor shall prevent any unmanaged releases from the site in addition to isolating runoff from active removal areas. The requirements of the NPDES permit must be met; therefore, the Contractor may be required to implement sediment controls as directed by the Contracting Officer (or the designated representative) if the possibility of exceeding a permit parameter exists.

# 3.4 PROTECTION OF AIR RESOURCES

Special management techniques as stated below shall be implemented to control air pollution created by construction activities to meet the requirements of 10 CFR 20. These techniques supplement the requirements of Federal, State, and local laws and regulations and the safety requirements under this Contract. The Contractor is required to meet the action levels in the work zone. These levels are stated in Section 01351 - SAFETY, HEALTH AND EMERGENCY RESPONSE.

#### 3.4.1 Airborne Particulates

Airborne particulates, including dust particles, from construction activities and processing and preparation of materials shall be controlled at all times, including weekends, holidays, and hours when work is not in progress. The Contractor shall maintain all excavation, stockpiles, haul roads, permanent and temporary access roads, and all other work areas free from visible airborne dust that would cause a hazard or nuisance by covering the piles and open excavation with a cover (see Section 02221 – SOIL REMOVAL) in order to comply with 10 CSR 10-5.090, 10 CSR 10-6.170 and the 10 CFR 20 air effluent concentration limits in Appendix B for occupational exposure and for exposure of members of the public outside the contractor's radiological restricted area. Water used as a dust suppression technique shall be managed according to Section 3.3 of this specification and in coordination with Section 01351 – SAFETY, HEALTH AND EMERGENCY RESPONSE.

#### 3.5 INSPECTION

If the Contracting Officer (or the designated representative) notifies the Contractor in writing of any observed noncompliance with Contract requirements or Federal, State, or local laws, regulations, or permits, the Contractor shall inform the Contracting Officer (or the designated representative) of proposed corrective action and take such action to correct the noncompliance. If the Contractor fails to comply promptly, the Contracting Officer (or the designated representative) may issue an order stopping all or part of the work until satisfactory corrective action is taken. No time extensions will be granted or costs or damages allowed to the Contractor for any such suspension.

#### 3.6 STORM WATER AND SEDIMENT CONTROL SYSTEM

The Contractor shall develop a storm water and sediment control plan and provide it to the Contracting Officer or the designated representative prior to any land disturbance. The plan shall address the frequency of sediment removal from the collection system, management (i.e., disposal) of sediment collected in the system, and method of removal of the sediment during and upon completion of the Work. The plan shall comply with Federal, State, and local transport and disposal regulations. The Contractor is responsible for removal and disposal of sediment in accordance with the approved plan. Upon completion of the work, the Contractor shall remove sediments from the storm water and sediment control system before vacating the site. The Contractor shall meet the requirements in Section 02935 – SOD prior to removing the sediment and stormwater controls and vacating the site.

# 3.7 MAINTENANCE OF POLLUTION CONTROL FACILITIES

The Contractor shall maintain all constructed pollution control facilities and portable pollution control devices for the duration of the Contract or for the length of time construction activities create the particular pollutant.

# 3.8 TRAINING OF CONTRACTOR PERSONNEL

The Contractor shall provide certification that Contractor personnel as a minimum have been trained as required by 29 CFR 1910 and 10 CFR 19. The contractor shall conduct environmental protection/pollution control training for all Contractor personnel to include topics such as methods of detecting and avoiding pollution, familiarization with pollution standards, both statutory and contractual, installation and care of facilities (vegetative covers, etc.), and instruments required for monitoring purposes to ensure adequate and continuous environmental protection/pollution control. The Contractor shall readdress these topics each month at an environmental

protection/pollution control meeting. Anticipated hazardous or toxic chemicals or wastes, and other regulated contaminants shall also be discussed. Other items to be discussed shall include recognition and protection of archaeologic sites and artifacts. If the Contractor stores oils as defined by 40 CFR 110 and 40 CFR 112 in the de minimus quantities outlined in 40 CFR 112, the Contractor shall meet the requirements outlined in 40 CFR 112, including certification that Contractor personnel have been trained as required in 40 CFR 112.21 – Facility Response Training and Drills/Exercises.

#### **END OF SECTION 01130**

# **SECTION 01330**

#### SUBMITTAL PROCEDURES

#### PART 1 GENERAL

#### 1.1 SUBMITTAL IDENTIFICATION

Submittals required are identified by SD numbers as follows:

SD-01 Data

SD-04 Drawings

SD-06 Instructions

SD-07 Schedules

SD-08 Statements

SD-09 Reports

SD-13 Certificates

SD-14 Samples

SD-18 Records

SD-19 Operation and Maintenance Manuals

# 1.2 SUBMITTAL CLASSIFICATION

Submittals are classified as follows:

# 1.2.1 Governmental Approved

Governmental approval is required for extensions of design, critical materials, deviations, equipment whose compatibility with the entire system must be checked, and other items as designated by the Contracting Officer or the designated representative. Within the terms of the Contract Clause entitled "Specifications and Drawings for Construction" they are considered to be "shop drawings".

# 1.2.2 Information Only

All submittals not requiring Government approval will be for information only. They are not considered to be "shop drawings" within the terms of the Contract Clause referred to above.

#### 1.3 APPROVED SUBMITTALS

The Contracting Officer's or the designated representative's approval of submittals shall not be construed as a complete check, but will indicate only that the general method of construction, materials, detailing and other information are satisfactory. Approval will not relieve the Contractor of the responsibility for any error that may exist, as the Contractor under the Contractor's Quality Control (CQC) requirements of this contract is responsible for dimensions, the design of adequate connections and details, and the satisfactory construction of all work. After the Contracting Officer or the designated representative has approved submittals, no resubmittal for the purpose of substituting materials or equipment will be considered unless accompanied by an explanation of why a substitution is necessary.

#### 1.4 DISAPPROVED SUBMITTALS

The Contractor shall make all corrections required by the Contracting Officer or the designated representative and promptly furnish a corrected submittal in the form and number of copies specified

for the initial submittal. If the Contractor considers any correction indicated on the submittals to constitute a change to the contract, a notice in accordance with the Contract Clause "Changes" shall be given promptly to the Contracting Officer or the designated representative.

#### 1.5 WITHHOLDING OF PAYMENT

Payment for materials incorporated in the work will not be made if required approvals have not been obtained.

#### PART 2 PRODUCTS

(Not Applicable)

# PART 3 EXECUTION

#### 3.1 GENERAL

The Contractor shall make submittals as required by the specifications. The Contracting Officer or the designated representative may request submittals in addition to those specified when deemed necessary to adequately describe the work covered in the respective sections. Units of weights and measures used on all submittals shall be the same as those used in the Contract Drawings. Each submittal shall be complete and in sufficient detail to allow ready determination of compliance with contract requirements. Prior to submittal, all items shall be checked and approved by the Contractor's Quality Control (CQC) representative and each item shall be stamped, signed, and dated by the CQC representative indicating action taken. Proposed deviations from the contract requirements shall be clearly identified. Submittals shall include items such as: Contractor's, manufacturer's, or fabricator's drawings; descriptive literature including, but not limited to, catalog cuts, diagrams, operating charts or curves; test reports; test cylinders; samples, O&M Manuals (including parts lists); certifications; warranties; and other such required submittals. Submittals requiring Government approval shall be scheduled and made prior to the acquisition of the material or equipment covered thereby.

# 3.2 SUBMITTAL REGISTER (ENG Form 4288)

At the end of this section is one set of ENG Form 4288 listing for which submittals are required by the specifications. This list may not be all inclusive and additional submittals may be required. The Contractor will also be given the submittal register as a diskette containing the computerized ENG Form 4288 and instructions on the use of the files. The Government has completed columns "d" through "r". The Contractor shall complete columns "a" and "s" through "z" and submit the forms (hard copy plus associated electronic file) to the Contracting Officer or the designated representative for approval within 14 calendar days after Notice to Proceed. The Contractor shall keep this diskette up-to-date and shall submit it to the Government together with the monthly payment request. The approved submittal register will become the scheduling document and will be used to control submittals throughout the life of the contract. The submittal register and the progress schedules shall be coordinated.

# 3.3 SCHEDULING

Submittals covering component items forming a system or items that are interrelated shall be scheduled to be coordinated and submitted concurrently. Certifications to be submitted with the pertinent drawings shall also be so scheduled. Adequate time (a minimum of 5 calendar days

exclusive of mailing time) shall be allowed and shown on the register for review and approval. No delay damages or time extensions will be allowed for time lost in late submittals.

# 3.4 TRANSMITTAL FORM (ENG Form 4025)

The transmittal form (ENG Form 4025) shall be used for submitting both Government Approved and information only submittals in accordance with the instructions on the reverse side of the form. These forms will be furnished to the Contractor. This form shall be properly completed by filling out all the heading blank spaces and identifying each item submitted. Special care shall be exercised to ensure proper listing of the specification paragraph and/or sheet number of the Contract Drawings pertinent to the data submitted for each item.

# 3.5 SUBMITTAL PROCEDURE

Submittals shall be made as follows:

#### 3.5.1 Procedures

Four (4) copies of submittals shall be submitted to:

Department of the Army
Corps of Engineers
Attn: FUSRAP HISS Main Pile
8945 Latty Ave.
St. Louis, Missouri 63134

#### 3.5.2 Deviations

For submittals which include proposed deviations requested by the Contractor, the column "variation" of ENG Form 4025 shall be checked. The Contractor shall set forth in writing the reason for any deviations and annotate such deviations on the submittal. The Government reserves the right to rescind inadvertent approval of submittals containing unnoted deviations.

# 3.6 CONTROL OF SUBMITTALS

The Contractor shall carefully control his procurement operations to ensure that each individual submittal is made on or before the Contractor scheduled submittal date shown on the approved "Submittal Register".

# 3.7 GOVERNMENT APPROVED SUBMITTALS

Upon completion of review of submittals requiring Government approval, the submittals will be identified as having received approval by being so stamped and dated. The Contracting Officer or the designated representative will retain two (2) copies of the submittal and two (2) copies of the submittal will be returned to the Contractor.

#### 3.8 INFORMATION ONLY SUBMITTALS

Normally submittals for information only will not be returned. Approval of the Contracting Officer or the designated representative is not required on information only submittals. The Government reserves the right to require the Contractor to resubmit any item found not to comply with the contract. This does not relieve the Contractor from the obligation to furnish material conforming to the plans and specifications; will not prevent the Contracting Officer or the designated representative from requiring removal and replacement of nonconforming material incorporated in

the work; and does not relieve the Contractor of the requirement to furnish samples for testing by the Government laboratory or for check testing by the Government in those instances where the technical specifications so prescribe.

# 3.9 STAMPS

Stamps used by the Contractor on the submittal data to certify that the submittal meets contract requirements shall be similar to the following:

CONTR	ACTOR (firm name)
	Approved
	Approved with corrections as noted on submittal data and/or attached sheet(s)
SIGNAT	TURE:
TITLE:	
DATE:	

**END OF SECTION 01330** 

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# **SECTION 01351**

# SAFETY, HEALTH, AND EMERGENCY RESPONSE (HTRW)

#### PART 1 **GENERAL**

#### 1.1 **REFERENCES**

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by designation only.

# American National Standards Institute (ANSI)

ANSI Z358.1	(1990) Emergency Eyewash and Shower Equipment
ANSI Z41	(1991) Protective Footwear
ANSI Z87.1	(1968) Eye Protection
ANSI Z89.1	(1968) Protective Headwear
ANSI Z308.1	(1978) Minimum Requirements for Industrial Unit Type First Aid Kits
ANSI 13.12	(1999) Surface and Volume Radioactivity Standards for Clearance

# Code of Federal Regulations (CFR)

10 CFR 19	Notices, Instructions and Reports to Workers: Inspection and
	Investigation
10 CFR 20	Standards for Protection Against Radiation
29 CFR 1903	Inspections, Citations and Proposed Penalties
29 CFR 1904	Recording and Reporting Occupational Injuries and Illnesses
29 CFR 1910	Occupational Safety and Health Standards
29 CFR 1926	Safety and Health Requirements for Construction
49 CFR 171	Hazardous Materials Transportation Regulations
49 CFR 172	Hazardous Materials Table, Special Provisions, Hazardous Materials
	Communications, Emergency Response Information, and Training
	Requirements
49 CFR 173	Shippers – General Requirements for Shipments and Packaging
49 CFR 174	Carriage by Rail

(1996) U.S. Army Corps of Engineers Safety and Health
Requirements Manual
(1997) U.S. Army Corps of Engineers Radiation Protection Manual
(2000) U.S. Army Corps of Engineers Safety and Occupational
Health Document Requirements for HTRW Activities.

# National Institute for Occupational Safety and Health (NIOSH)

(1985) Occupational Safety and Health Guidance Manual for NIOSH Pub No. 85-115 Hazardous Waste Site Activities

#### 1.2 **DESCRIPTION OF WORK**

This section provides additional requirements for implementing the accident prevention provisions of EM 385-1-1, and specifies the development of a Site Safety and Health Plan (SSHP) that includes an appendix containing a separate Radiation Protection Plan (RPP) with Standard Operating Procedures (SOPs). The SSHP and RPP with SOPs shall satisfy the requirements for submission of a separate Accident Prevention Plan (APP) as required by EM 385-1-1. The requirements shall apply to work performed in both "contaminated" and "clean" areas.

#### 1.3 SUBMITTALS

Government approval is required for all submittals with a "GA" designation; submittals having and "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 – SUBMITTAL PROCEDURES:

# **SD-04 Drawings**

**Work Zones**; **FIO** – Drawings shall include initial work zone boundaries: Controlled Area (CA), including restricted and regulated areas; and Support Zone (SZ).

**Decontamination Facilities; FIO** – Drawings shall show the layout of the personnel and equipment decontamination areas.

# SD-09 Reports

**Monitoring/Sampling Results; FIO** – The Contractor shall prepare and submit personnel exposure monitoring/sampling results in accordance with the FUSRAP Air Sampling, Handling and Analysis Instruction, the FUSRAP Internal Dosimetry Technical Basis Manual, the Sampling and Analysis Guide (SAG) and the Data Management Process Plan. All radiological air monitoring data collected by the Contractor shall be summarized and submitted for review by the 20<sup>th</sup> of each month for the preceding month's monitoring. Results of personnel exposure monitoring shall be summarized and submitted within 15 days after receipt of data.

**Site Control Log; FIO** – The Contractor shall prepare and submit a record of each entry and exit into the site, as specified in 1.19.2 of this section.

**Site Safety and Health Plan; GA** – The Contractor shall prepare and submit for approval a SSHP and RPP with SOPs, as specified in this section. The Contractor shall prepare, as appendices to the SSHP, a Radiation Protection Plan as required by 10 CFR 20 Subpart B including standard operating procedures for implementation of the plan.

**Meeting Minutes; FIO** – The Contractor shall submit three (3) copies of safety meeting minutes within ten (10) working days of the meeting.

# 1.4 REGULATORY REQUIREMENTS

Work performed under this contract shall comply with EM 385-1-1, and applicable Federal, State, and local safety and occupational health laws and regulations. This includes, but is not limited to, Occupational Safety and Health Administration (OSHA) standards, 29 CFR, especially 29 CFR 1910.1096 and 1926.65, "Hazardous Waste Site Operations and Emergency Response"; and the Nuclear Regulatory Commission (NRC) regulations in 10 CFR 20. Matters of interpretation of standards shall be submitted to the appropriate administrative agency through the USACE for resolution before starting work. Where the requirements of this specification, applicable laws, criteria, ordinances, regulations, and referenced documents vary, the most stringent requirements shall apply.

# 1.5 PRECONSTRUCTION SAFETY CONFERENCE

The Contractor shall document the minutes and attendees of the safety conference prior to field activities, and submit three (3) copies within ten (10) working days.

# 1.6 SAFETY AND HEALTH PROGRAM

OSHA Standard 29 CFR 1926.65(b) requires employers to develop and implement a written Safety and Health Program for employees involved in hazardous waste operations. The site-specific program requirements of the OSHA Standards shall be integrated into one site-specific document, the Site Safety and Health Plan (SSHP). The SSHP shall interface with the employer's overall Safety and Health Program. Any portions of the overall Safety and Health Program that are referenced in the SSHP shall be included as appendices to the SSHP.

NRC regulation 10 CFR 20 requires employers to develop and implement a written Radiation Protection Program commensurate with the scope and extent of planned activities and sufficient to ensure compliance with the provisions of 10 CFR 20. The Contractor shall submit a Radiation Protection Program Plan (RPP) as an appendix to the SSHP. Radiation Protection standard operating procedures shall be included in the RPP.

# 1.7 SITE SAFETY AND HEALTH PLAN AND RADIATION PROTECTION PLAN

# 1.7.1 Preparation and Implementation

A Site Safety and Health Plan (SSHP) and Radiation Protection Plan (RPP) shall be prepared covering onsite work to be performed by the Contractor and all subcontractors. The Safety and Health Manager shall be responsible for the development, implementation and oversight of activities covered by the SSHP. The SSHP shall establish, in detail, the protocols necessary for the anticipation, recognition, evaluation, and control of hazards associated with each task performed. The SSHP shall address site-specific safety and health requirements and procedures based upon site-specific conditions. Anticipated chemicals (radiological and non-radiological) that may present occupational health and safety hazards should be identified. The level of detail provided in the SSHP shall be tailored to the type of work, complexity of operations to be performed, and hazards anticipated. Details about some activities may not be available when the initial SSHP is prepared and submitted. Therefore, the SSHP shall address, in as much detail as possible, anticipated tasks, their related hazards and anticipated control measures. Additional details shall be included in the activity hazard analyses as described in paragraph Activity Hazard Analyses. Additional guidance for completing the SSHP is provided in EM-385-1-1 and Appendix B of EM 385-1-92. Additional guidance for completing the RPP is provided in EM 385-1-80, EM 385-1-1, and the USACE St. Louis District FUSRAP Radiation Safety Manual.

# 1.7.2 Acceptance and Modifications

Prior to submittal, the SSHP shall be signed and dated by the Safety and Health Manager and the Site Superintendent. The SSHP must also be signed and dated by a CIH and a CHP (the Safety and Health Manager must be at least one of these disciplines.) The SSHP shall be submitted for review 14 days prior to the Pre-construction Safety Conference. Deficiencies in the SSHP and/or RPP will be discussed at the pre-construction safety conference, and the SSHP and/or RPP shall be revised to correct the deficiencies and resubmitted for acceptance. Onsite work shall not begin until the plans have been accepted by the USACE per paragraph 1.7.2.1 of this section. A copy of the written SSHP and associated RPP shall be maintained onsite. As work proceeds, the SSHP and associated RPP shall be adapted to new situations and new conditions. Changes and modifications to the accepted SSHP and/or RPP shall be made with the concurrence of the Safety and Health manager, the Site Superintendent, and the Contracting Officer (or the designated representative). Should any unforeseen hazard become evident during the performance of the work, the Site Safety and Health Officer (SSHO) shall bring such hazard to the attention of the Safety and Health Manager, the Site Superintendent, and the Contracting Officer (or the designated representative), both verbally and in writing, for resolution as soon as possible. In the

interim, necessary action shall be taken to re-establish and maintain safe working conditions in order to safeguard onsite personnel, visitors, the public, and the environment. Changes to the SSHP (including the RPP) shall be made (as applicable) to address the new hazard. Revised SSHP (or RPP) documents shall be approved in the same manner as the original document. Disregard for the provisions of this specification or the accepted SSHP (and associated RPP) shall be cause for issuing a "stop work order" until the matter has been rectified.

# 1.7.2.1 Approval of SSHP

The Contracting Officer (or the designated representative) will review the SSHP and associated RPP and return it to the Contractor with comments. The Contractor shall make the necessary changes required by the Contracting Officer (or the designated representative) and resubmit the SSHP and RPP for government concurrence. This procedure shall continue until the Contracting Officer (or the designated representative) gives final written concurrence. At that time, the Contractor shall indicate its commitment to following the SSHP and associated RPP by an affidavit signed by the site superintendent and company Safety and Health Manager. The Contractor shall not mobilize until it receives written approval of the SSHP and associated RPP and has signed the affidavit as required.

# 1.7.3 Availability

The SSHP (to include the RPP), SOPs implemented under the RPP, and all amendments and activity hazard analyses shall be made available in accordance with 29 CFR 1926.65 (b)(1)(v).

# 1.7.4 Elements

Topics required by 29 CFR 1926.65 (b)(4) and the Accident Prevention Plan as described in Appendix A of EM 385-1-1 and those described in this section shall be addressed in the SSHP. Where the use of a specific topic is not applicable to the project, the SSHP shall include a statement to justify its omission or reduced level of detail and establish that adequate consideration was given to the topic.

## 1.7.4.1 Plan Requirements

The SSHP shall include a description of the site-specific methods by which the Contractor will meet the safety and health requirements of OSHA standards 29 CFR 1926 (especially 1926.65), EM 385-1-1, EM 385-1-92, and these technical contract specifications. The SSHP will be considered to satisfy the requirements for a written Accident Prevention Plan if it incorporates the requirements of EM 385-1-1, Section 01.A, including activity hazard analyses.

The SSHP shall describe the safety and health procedures, practices, and equipment to be implemented and utilized in order to protect affected personnel from the potential hazards associated with the site-specific tasks to be performed. The level of detail provided in the SSHP shall be tailored to the type of work, complexity of operations to be accomplished, and the hazards anticipated. In all cases, however, all topics required by OSHA standards 29 CFR 1920.120(b)(4)/29 CFR 1926.65(b)(4) and those elements listed in Appendix B of 385-1-92 shall be addressed in the SSHP on a site-specific basis. Where use of a specific element is not applicable to the project, the Contractor shall provide a negative declaration to establish that adequate consideration was given to the topic and give a brief justification for its omission or reduced level of detail. The following outlines the required elements of the SSHP:

- a. Site description and contamination characterization
- b. Hazard/Risk analyses
- c. Staff Organization, qualifications, and responsibilities

- d. Training
- e. Personal protective equipment
- f. Medical surveillance
- g. Radiation dosimetry
- h. Exposure monitoring/Air Sampling Program
- i. Heat Stress/Cold Stress monitoring
- j. Standard operating procedures, engineering controls and work practices
- k. Site control measures
- I. Personal hygiene and decontamination
- m. Equipment decontamination
- n. Emergency equipment and first aid requirements
- o. Emergency response and contingency procedures
- p. Accident prevention
- q. Logs, reports, and recordkeeping

The RPP shall include a description of the radiation protection program and standard operating procedures that comply with the requirements of EM 385-1-1, EM 385-1-80, 10 CFR 19, and 10 CFR 20 and shall include the following (at a minimum):

- a. Occupational radiation dose limits for workers and members of the public
- b. External and internal monitoring and hazard controls
- c. Respiratory protection and controls
- d. Worker training requirements
- e. Radiological area posting requirements
- f. Container labeling requirements
- g. Procedures for receiving and opening packages of radioactive material
- h. Radioactive waste disposal
- i. Records requirements
- Reporting requirements

The standard operating procedures submitted with the RPP shall cover the following specific topics and shall be included as an appendix to the SSHP. These topics may be combined into a single procedure as long as all appropriate information is included in the one procedure.

- a. Respiratory Protection Program
- b. ALARA Program
- c. Quality Control of Radiation Monitoring Equipment
- d. Issuance, Use, and Termination of Personal Dosimetry
- e. Internal Dosimetry and Bioassay Sampling
- f. Radiation Work Permits
- g. Restricted Area Posting and Controls
- h. Control of Airborne Radiation Exposure
- i. Proper Selection and Use of Protective Clothing and Equipment
- j. Operation of Portable Radiation Monitoring Instruments
- k. Contamination Control
- I. Receipt and Transfer of Radioactive Material
- m. Radiological Incident and Deficiency Reporting
- n. Personnel Decontamination
- o. Operational (e.g., personnel, area, equipment) and Transportation Radiological Survey Requirements
- p. Transportation of Radioactive Materials
- q. Radioactive Source Inventory, Accountability, and Leak Testing
- r. Equipment Decontamination

#### 1.8 SITE DESCRIPTION AND CONTAMINATION CHARACTERIZATION

## 1.8.1 Project/Site Conditions

The following information is a record of site contaminants and a description of the site. This information is provided to assist in preparation of the SSHP.

#### 1.8.1.1 Site Information

Site information and characterization of the Main Pile material is contained in the Pre-Design Investigation Report for the Hazelwood Interim Storage Site (HISS) – Main Pile Removal Action (PDI). The PDI will be provided to the Contractor.

#### 1.8.1.2 List of Available Documents

- Hazelwood Interim Storage Site (HISS) Site Storage Piles Characterization Report, USACE, 1998
- Engineering Evaluation/Cost Analysis (EE/CA) for Hazelwood Interim Storage Site, Final USACE, May 1998.
- St. Louis FUSRAP Internal Dosimetry Technical Basis Manual, February 2000
- FUSRAP Air Sampling, Handling and Analysis Instruction
- Draft Sampling and Analysis Guide
- Data Management Process Plan

## 1.8.2 Plan Requirements

The SSHP shall include a site description and contamination characterization section that addresses the following elements:

- a. Description of site location, topography, size and past uses of the site.
- b. A list of contaminants that may present occupational health and safety hazards. This list shall be created by evaluating the analytical results and by researching sources of information from past site investigation activities. Chemical names, radioisotopes, concentration ranges, and strength of radiation fields and levels of radioactive contamination, media in which found, locations onsite, and estimated quantities/volumes to be impacted by site work shall be included if known. The contamination characterization shall be reviewed and revised if new chemicals are identified as work progresses.

# 1.8.3 Ordnance and Explosive Waste (OEW)

It is not anticipated that the Contractor will contact OEW during the course of this work. If the Contractor encounters and must handle OEW, the Contractor shall follow all requirements as found in EM 385-1-1.

## 1.9 HAZARD/RISK ANALYSIS

The SSHP shall include a safety and health hazard/risk analysis for each site task and operation to be performed. The hazard/risk analysis shall provide information necessary for determining safety and health procedures, equipment, and training to protect onsite personnel, the environment, and the public. Available site information shall be reviewed when preparing the

"Hazard/Risk Analysis" section of the SSHP. The elements below, at a minimum, shall be addressed.

# 1.9.1 Site Tasks and Operations

The overall scope of the project is the removal and disposal of the HISS Main Pile. This scope will be accomplished in several steps.

- a. Site mobilization and erosion control measures.
- b. Removal of the Main Pile as shown on the Contract Drawings.
- c. Placement of the removed material into rail cars parked along the rail spur and subsequent shipment.
- d. Transport of the removed material by rail to a disposal facility.
- e. Site restoration
- f. As-built documentation.
- g. Decontamination of equipment to be released for off-site use.
- h. Site demobilization.

This is not intended as a complete list of site tasks and operations; therefore, it shall be expanded and/or revised during preparation of the SSHP as necessary. The SSHP must address the hazards of all significant project tasks.

#### 1.9.2 Hazards

The following potential hazards may be encountered during site work. These are not complete lists; therefore, they shall be expanded and/or revised as necessary during preparation of the SSHP.

## 1.9.2.1 Safety Hazards

Safety hazards that may be encountered during site work shall be addressed in the hazard/risk analysis of the SSHP. The hazards that may be encountered include, but are not limited to, housekeeping related accidents, heavy equipment operations, excavation activities, above ground utilities, electrical hazards, fire/explosions, and motor vehicles.

The SSHP must address task-specific hazard assessments and contain appropriate and sufficient hazard controls for these and other relevant physical hazards. As a minimum, controls will include safety shoes, safety glasses, hard hats, reflective safety vests (as appropriate), clearance of utilities (documented wit the Field Safety Checklist located in SECTION 02221 – SOIL REMOVAL), proper fuel storage as required by EM 385-1-1, excavation in compliance with EM 385-1-1 Section 25, and heavy equipment use in compliance with EM 385-1-1 Section 16.

#### 1.9.2.2 Chemical Hazards

Potential chemical hazards that may be encountered during site work are discussed in paragraph Site Description and Contamination Characterization. The Hazard/Risk Analysis section of the SSHP shall describe the chemical, physical, and toxicological properties of contaminants, sources and pathways of employee exposures, anticipated onsite and offsite exposure level potentials, and regulatory (including Federal, State, and local) or recommended protective exposure standards. The SSHP shall also address employee exposure to hazardous substances brought onsite, and shall comply with the requirements of 29 CFR 1926.59, Hazard Communication.

## 1.9.2.3 Physical Agents

Potential hazards from physical agents that may be encountered during site work shall be addressed in the Hazard/Risk Analysis section of the SSHP. The potential hazards to be addressed in the SSHP include occupational injury or illness from heat, cold, noise, vibration or other physical agents that may be presented by onsite activities.

The SSHP must address task specific hazard assessments and contain appropriate and sufficient hazard controls for these and other relevant physical hazards. As a minimum, controls will include safety shoes, safety glasses, hard hats, noise level monitoring, hearing protection (as appropriate), heat and cold stress monitoring and controls as required by EM 385-1-1 and 29 CFR 1926.

#### 1.9.2.4 Radiological Hazards

Radionuclides present in the material to be handled are not anticipated to generate occupational doses in excess of occupational dose standards as long as proper engineering controls, administrative controls, and preventative controls are implemented, and personal protective equipment is used (see the risk and dose characterization in the October 1998 EE/CA for additional information). Contractors shall consider the dust generated by remedial action activities to be a potential internal radiological hazard for workers and members of the public. One of the primary exposure routes is expected to be inhalation. Contractors shall take precautions (i.e., water misting, minimizing soil drop heights, covering the pile, etc.) to keep dust levels as low as reasonably achievable.

The Contractor shall develop a RPP (as an appendix to the SSHP), which shall include radiological hazard controls, anticipated exposures, contamination control training requirements, exposure limits, and which shall comply with EM 385-1-1 Section 06.E and 10 CFR 20.

#### Worker Controls and Monitoring

The Contractor CHP shall evaluate potential exposures to employees due to workplace contaminants and planned contractor activities to determine if radiological (internal and external) monitoring is required in accordance with 10 CFR 20. The Contractor CHP shall submit the assessment and receive USACE concurrence with methodologies employed for the evaluation.

The Contractor is required to conduct internal monitoring of personnel likely to receive an occupational intake in excess of 10% of the Annual Limit on Intake (ALI) (i.e., 500 mrem/yr CEDE). The Contractor shall conduct confirmatory monitoring to monitor the occupational intake of radioactive materials by, and assess the committed effective dose equivalent (CEDE) to all workers that are likely to receive in excess of 2% of the Annual Limit on Intake (ALI) (i.e., 100 mrem/year).

Based on the distribution of radionuclides present in the HISS Main Pile and it's low Derived Air Concentration (DAC), Th-230 will be the most limiting radionuclide for an occupationally exposed worker or member of the public. Inhalation of particulate radionuclides is the major radiation safety concern during removal activities.

The RPP shall include a description of how worker exposures will be minimized through the use of engineering controls, administrative controls, and personnel protective equipment.

The Contractor shall demonstrate that an approved respiratory protection program is available and can be used if engineering controls do not reduce airborne concentrations to desired levels. Requirements of EM 385-1-1 Section 05.E and 06.E.07 and 10 CFR 20 Subpart H, "Respiratory Protection and Controls to Restrict Internal Exposure" must be followed.

It is not anticipated that Rn-222 gas (and its progeny) will be an exposure concern during the removal of the HISS Main Pile. However, if high soil concentrations of Ra-226 are encountered, personnel and general area radon/radon progeny monitoring may be required as outlined below.

The Contractor internal monitoring program shall meet the requirements contained in the FUSRAP Internal Dosimetry Technical Basis Manual. The program shall have the following elements (at a minimum):

# Air Sampling Program

Air sampling provides the basis for assessment of thorium intakes as well as an early indication that loss of radiological control has occurred. It can also provide an early means of estimating inhalation intakes. A properly designed air sampling program is paramount in maintaining internal doses As Low As Reasonably Achievable (ALARA) and shifts the focus of internal dosimetry to prospective surveillance of the workplace.

The Contractor air sampling program shall consist of high volume particulate air samplers (general area), and lapel (breathing zone) air samplers to track worker exposure to particulate radionuclides and to determine if emission controls are sufficient. Air sampling for worker exposure inside the work area shall comply with 10 CFR 20, Subpart B. Exposures outside the work area shall comply with 10 CFR, Subpart D and 10 CFR 20.11.1. The air samples for assessment of occupational and general public exposure will be analyzed to meet 10% of the applicable limits in 10 CFR 20, Appendix B, except the higher limits may be proposed to USACE for general public exposures. Air sampling requirements can be found in the St. Louis FUSRAP Internal Dosimetry Technical Basis Manual. Guidance for collecting, submitting, handling, documenting, and analyzing particulate air samples for radionuclides is presented in the FUSRAP Air Sample Handling and Analysis Instruction, the Sampling and Analysis Guide (SAG), and the Data Management Process Plan. Five to ten percent of the air samples obtained will be submitted to the FUSRAP Laboratory as a Quality Assurance check on routine contractor analysis.

#### DAC-hr Tracking for Individual

DAC-hrs will be tracked for each worker based on the measured air concentrations and worker stay times. DAC-hrs will form the basis for assigning intake, Committed Effective Dose Equivalent, and Committed Dose Equivalent. DAC hour tracking requirements and dose assessment methodology can be found in the St. Louis FUSRAP Internal Dosimetry Technical Basis Manual. The Contractor may determine that monitoring is not required. If so, the Contractor shall document the evaluation in writing and submit it for USACE concurrence.

#### Bioassavs

Bioassays will be used to supplement the air monitoring data for individuals. At a minimum, baseline and termination bioassays shall be required for all workers. Termination (exit) bioassays from another site (or employer) are acceptable for baseline bioassays at the St. Louis FUSRAP (or when changing from one contractor to another within the project) provided that the worker has not taken part in radiological work since the termination bioassay was submitted. The accumulation of DAC-hrs will form the basis for requiring "special" (non-routine) bioassays. FUSRAP bioassay requirements and dose assessment methodology can be found in the St. Louis FUSRAP Internal Dosimetry Technical Basis Manual. The Contractor may determine that monitoring is not required. If so, the Contractor shall document the evaluation in writing and submit it for USACE concurrence.

#### Radon and/or Radon Progeny Monitoring

Real time radon gas monitoring (measuring Rn-222 concentrations and/or working level meter monitoring (or equivalent) measuring Rn-222 progeny concentrations) may be necessary in general work areas to determine the radon concentrations (pCi/L) and radon working levels (WL) to which workers are exposed during remedial activities.

The Contractor's CHP will assess the potential dose and risk from radon exposure to workers and members of the public and will provide a radon monitoring plan based on this assessment for USACE concurrence.

#### **External Radiation Monitoring**

Monitoring for external exposure to gamma radiation is required if it is likely that a worker will be exposed in excess of 500 mrem/yr to sources of radiation external to the body. The Contractor shall perform confirmatory monitoring if it is likely that a worker will exceed 100 mrem/yr. External exposure monitoring may be accomplished using thermoluminescent dosimeters or electric dosimeters, if required. The Contractor may determine that monitoring is not required because doses are not likely to exceed 100 mrem/yr. If so, the Contractor shall document the evaluation in writing and submit it to the USACE for concurrence.

# Radiation Work Permit (RWP)

A RWP (or equivalent) shall be developed for each Contractor activity. The RWP is the primary tool for ensuring ALARA objectives are incorporated into daily activities. The major emphasis of the program is for the proper planning of activities. This is accomplished by determining and documenting conditions in the work area and the control requirements such as engineering controls, respiratory protection, protective clothing, and dosimetry based upon current conditions in the work area, job scope, and historical information. The RWP shall be developed using information from the AHA that is required for each Contractor activity.

# 1.9.2.5 Biological Hazards

Potential biological hazards that may be encountered during site work shall be addressed in the Hazard/Risk Analysis section of the SSHP. The hazards that may be encountered include, but are not limited to, snakes, spiders, bees, ticks, and poison ivy. The SSHP must specify appropriate controls.

#### 1.9.2.6 Weather Hazards

Potential weather hazards, such as lightning, hail, high winds, and tornadoes, which may be encountered during site work, shall be addressed in the Hazard/Risk Analysis section of the SSHP. The Contractor shall stop work as directed by the Contracting Officer or the designated representative, such as during precipitation events involving lightning. The SSHP must include plans for evacuation and sheltering from tornadoes/severe weather.

## 1.9.3 Action Levels

# 1.9.3.1 General

Action levels shall be established to control site hazards (radiological and non-radiological) and shall be established for the situations listed below, at a minimum. The action levels and required actions (engineering controls, changes in PPE, etc.) shall be presented in the SSHP in both text and tabular form.

- a. Implementation of engineering controls and work practices.
- b. Upgrade or downgrade in level of personal protective equipment.
- c. Work stoppage and/or emergency evacuation of onsite personnel.
- d. Prevention and/or minimization of public exposures to hazards created by site activities.

The SSHP, RPP, and/or Contractor procedures shall describe the technical approach for determining airborne concentrations and action levels and practices used to control and monitor worker exposure. The following action levels, as a minimum, will be followed. It is the Contractor's responsibility to modify these and establish additional action levels, as needed, to ensure adequate protection.

Table 01351-3 ACTION LEVELS				
Level	Action			
1 mg/m <sup>3</sup> total dust at work zone perimeter*	Stop work, take actions to improve dust suppression, such as application of water sprays, minimizing soil drop heights, and covering inactive portions of the pile.			
Gross Alpha at the work zone perimeter, 1 E $-13~\mu$ Ci/ml Gross Beta at the work zone perimeter, 6 E $-11~\mu$ Ci/ml (Values based on the perimeter air effluent limit in 10 CFR 20 App. B Table 2 modeled back to center of the Main Pile. The modeling takes into account actual wind data taken from the National Climatic Data Center for St. Louis Lambert Airport)	Stop work, take actions to improve dust suppression, such as application of water sprays, minimizing soil drop heights, and covering inactive portions of the pile.			
Airborne radioactivity in excess of Air Effluent Concentration limits specified in Appendix B (Table 2) of 10 CFR 20.	Stop work, take actions to improve dust suppression, such as application of water sprays, minimizing soil drop heights, and covering inactive portions of the pile.			
Airborne radioactivity potentially greater than 5% DAC (ALARA Action Level)	Monitor representative personnel exposures using PAS pump. Assess control of airborne radioactivity.			
Airborne radioactivity greater than 25% DAC	Post area as airborne radioactivity area, take action to suppress dust generation, consider respirator use			
Employee exposure greater than 100% DAC	Assess controls, (control in accordance with 10 CFR 20, Subpart H)			
Employee exposures to external sources of radiation likely to exceed 100 mrem/yr.	Monitor employee for external exposure with TLD or electronic dosimeter. Assess control of external exposures.			
Employee intake of radioactive material likely to exceed 2% of the ALI (100 mrem/yr).	Monitor employee for internal exposure through air sampling and bioassay programs. Assess control of airborne radioactivity.			
Detectable radiological contamination of personnel.	Decontamination of personnel, evaluate source of contamination			
Contamination of equipment or materials greater than levels derived from ANSI 13.12 guidance or other USACE approved guidance.	Decontaminate to less than ANSI 13.12 (or other USACE approved guidance) derived levels or store and dispose of as radiologically contaminated.			
Noise greater than 85 dBA TWA	Suitable hearing protection			
Noise greater than 85 dBA TWA	Post area as noise hazard			
Heat stress monitoring with employee temperature greater than 100.4 degrees F and pulse greater than 110 beats per minute.	Employee takes rest period and remonitor. If still above action level, take additional controls to cool employee, such as removal of PPE, showering, etc.			
50% of the PEL for any other toxic atmospheric contaminant that may be present based on available information	Upgrade to appropriate respiratory and dermal protection as determined by the Contractor Health and Safety Manager.			

• The Contractor will also compare total dust concentrations to airborne radionuclide sampling results to develop a site-specific total dust action level correlated to airborne radionuclide exposures.

# 1.9.3.2 Confined Space Entry

Entry into confined spaces is not expected. However, if the Contractor must enter a confined space the following action level is applicable in accordance with EM 385-1-1 Section 06.I Confined Space and 29 CFR 1910 Section .146 Permit-required confined spaces.

Entry into and work in a confined space will not be allowed when oxygen readings are less than 19.5% or greater than 23.5% or if the Lower Flammable Limit (LFL) reading is greater than 10%, unless these conditions are adequately addressed in the confined space entry program. In addition, action levels for toxic atmospheres shall be determined.

#### 1.10 ACTIVITY HAZARD ANALYSIS

Prior to beginning each major phase of work, an Activity Hazard Analysis shall be prepared by the Contractor performing that work and submitted for review and acceptance. The format shall be in accordance with EM 385-1-1, figure 1-1. A major phase of work is defined as an operation involving a type of work presenting hazards not experienced in previous operations or where a new subcontractor or work crew is to perform. The analysis shall define the activities to be performed and identify the sequence of work, the specific hazards anticipated, and the control measures to be implemented to eliminate or reduce each hazard to an acceptable level. Work shall not proceed on that phase until the activity hazard analysis has been accepted and a preparatory meeting has been conducted by the Contractor to discuss its contents with everyone engaged in the activities, including the government onsite representatives. The activity hazard analyses shall be continuously reviewed and, when appropriate, modified to address changing site conditions or operations, with the concurrence of the Safety and Health Manager, the Site Superintendent, and the Contracting Officer (or the designated representative). Activity Hazard Analyses for currently planned tasks shall be incorporated with the SSHP. Activity Hazard Analyses completed after acceptance of the SSHP shall be attached to and become part of the SSHP. The protocol for the addition of new Activity Hazard Analyses shall be delineated in the SSHP.

## 1.11 STAFF ORGANIZATION, QUALIFICATIONS, AND RESPONSIBILITIES

An organizational structure shall be developed that sets forth lines of authority (chain of command), responsibilities, and communication procedures concerning site safety, health, and emergency response. This organizational structure shall cover management, supervisors and employees of the Contractor and subcontractors. The structure shall include the means for coordinating and controlling work activities of subcontractors and suppliers. The SSHP shall include a description of this organizational structure as well as qualifications and responsibilities of each of the following individuals. The Contractor shall obtain acceptance from the Contracting Officer or the designated representative in concurrence with the District Safety Office Representative before replacing any member of the Safety and Health staff. Requests shall include the names, qualifications, training, duties, and responsibilities of each proposed replacement.

# 1.11.1 Site Superintendent

A Site Superintendent who has responsibility to implement the SSHP, the authority to direct work performed under this contract, and verify compliance shall be designated. The Site Superintendent shall have the minimum qualifications listed below. The name, qualifications, and documentation of experience shall be included in the SSHP.

- a. A minimum of three (3) years experience supervising similar projects that achieved satisfactory safety performance.
- b. A working knowledge of 29 CFR 1926, EM 385-1-1, and related requirements.
- c. Forty-hour training, three-day supervised field experience, and current eight-hour refresher training as required by 29 CFR 1926.65 (e)(3) and (e)(8).
- d. A minimum of eight (8) additional hours of documented training specifically addressing the requirements of the Contractor's Safety and Health Program and other topics, as required by 29 CFR 1926.65 (e)(4).

#### 1.11.2 Safety and Health Manager

#### 1.11.2.1 Qualifications

The Contractor's safety and health manager shall be a Certified Industrial Hygienist (certified by the American Board of Industrial Hygiene) or Certified Health Physicist (certified by the American Board of Health Physics). The name, qualifications (education summary and documentation, certificates), and work experience summary shall be included in the SSHP. The Safety and Health Manager shall have the following additional qualifications:

- a. A minimum of 3 years experience in developing and implementing safety and health programs at hazardous radioactive waste sites.
- b. Documented experience in supervising professional and technician level personnel.
- c. Documented experience in developing worker exposure assessment programs and air monitoring programs and techniques.
- d. Documented experience in the development of personal protective equipment programs, including programs for working in and around potentially toxic, flammable and combustible atmospheres, and radioactive material.
- e. Working knowledge of state, Federal, and USACE occupational safety and health regulations and requirements.
- f. Forty-hour safety training, three-day supervised field experience, and current eight-hour refresher training as required by 29 CFR 1926.65 (e)(4) and (e)(8).
- g. A minimum of eight additional hours of documented training specifically addressing the requirements of the Contractor's safety and health program and other topics, as required by 29 CFR 1926.65 (e)(4).

#### 1.11.2.2 Responsibilities

The Safety and Health Manager shall:

- a. Be responsible for the development, implementation, oversight, and enforcement of the SSHP.
- b. Sign and date the SSHP prior to submittal.
- c. Conduct initial site-specific training.

- d. Be present onsite during the first 3 days of remedial activities and at the startup of each new major phase.
- e. Visit the site as needed and at least once per month for the duration of activities, to audit the effectiveness of the SSHP.
- f. Be available for emergencies.
- g. Provide onsite consultation as needed to ensure the SSHP is fully implemented.
- h. Coordinate any modifications to the SSHP with the Site Superintendent, the SSHO, the RSO, and the Contracting Officer (or the designated representative).
- i. Provide continued support for upgrading/downgrading the level of personal protection and/or personal protective equipment.
- j. Be responsible for evaluating air monitoring data and recommending changes to engineering controls, work practices, and PPE.
- k. Review accident reports and results of daily inspections.
- I. Serve as a member of the Contractor's quality control staff.

#### 1.11.3 Site Safety and Health Officer (SSHO)

#### 1.11.3.1 Qualifications of SSHO

An individual shall be designated the Site Safety and Health Officer (SSHO). The name, qualifications (education, training summary and documentation, certificates), and work experience of the Site Safety and Health Officer and alternate shall be included in the SSHP. The SSHO shall report to the Contractor Safety and Health Manager. The SSHO shall have no other duties than those related to health and safety. The SSHO can serve as the Radiation Safety Officer (RSO) as long as he/she meets the qualification standards for both. The SSHO shall have the following qualifications:

- A minimum of 2 years experience in implementing safety and health programs at hazardous and radioactive waste sites where Level C and Level D personal protective equipment was required.
- b. Documented experience in construction techniques and construction safety procedures.
- c. Working knowledge of Federal, state, and USACE occupational safety and health regulations and requirements.
- Specific training in personal and respiratory protective equipment program implementation and in the proper implementation of an air monitoring program to include radiological monitoring instruments, and air sampling methods.
- e. Forty-hour safety training, three-day supervised field experience, and current eight-hour refresher training as required by 29 CFR 1926.65 (e)(4) and (e)(8).

f. A minimum of eight additional hours of documented training specifically addressing the requirements of the Contractor's safety and health program and other topics, as required by 29 CFR 1926.65 (e)(4).

# 1.11.3.2 Responsibilities of SSHO

The Site Safety and Health Officer shall:

- a. Assist and represent the Safety and Health Manager in onsite training and the day to day onsite implementation and enforcement of the accepted SSHP.
- b. Be assigned to the site on a full time basis for the duration of field activities. The SSHO shall have no duties other than Safety and Health related duties. The SSHO may perform the duties of the RSO, if qualified, and if approved by the Contracting Officer (or the designated representative) in concurrence with the District Safety Office Representative and the District Radiation Safety Officer. If operations are performed during more than one work shift per day, a site Safety and Health Officer shall be present for each shift.
- c. Have authority to ensure site compliance with specified safety and health requirements, Federal, State, and OSHA regulations and all aspects of the SSHP including, but not limited to, activity hazard analyses, air monitoring, radiological monitoring, use of PPE, decontamination, site control, standard operating procedures used to minimize hazards, safe use of engineering controls, the emergency response plan, and preparation of records by performing a daily safety and health inspection and documenting results on the Daily Safety Inspection Log.
- d. Have authority to stop work if unacceptable health or safety conditions exist, and take necessary action to re-establish and maintain safe working conditions.
- e. Consult with and coordinate any modifications to the SSHP with the Safety and Health Manager, the Site Superintendent, RSO, and the Contracting Officer (or the designated representative).
- f. Serve as a member of the Contractor's quality control staff on matters relating to safety and health.
- g. Conduct accident investigations and prepare accident reports.
- h. Review results of daily quality control inspections and document safety and health findings into the Daily Safety Inspection Log.
- i. In coordination with site management and the Safety and Health Manager, recommend corrective actions for identified deficiencies and oversee the corrective actions.
- Ensure that each worker signs the health and safety compliance policy statement and it is maintained on site.
- k. Review RWPs and approve other health and safety related permits.

## 1.11.4 Occupational Physician (OP)

# 1.11.4.1 Qualifications of OP

The services of a licensed physician, who is certified in occupational medicine by the American Board of Preventative Medicine, or who, by necessary training and experience is Board eligible, shall be utilized. The physician shall be familiar with this site's hazards and the scope of this project. The medical consultant's name, qualifications, and knowledge of the site's conditions and proposed activities shall be included in the SSHP.

# 1.11.4.2 Responsibilities of OP

The physician shall be responsible for the determination of medical surveillance protocols and for review of examination/test results performed in compliance with 29 CFR 1926.65 (f) and paragraph 1.14 – Medical Surveillance.

## 1.11.5 Persons Certified in First Aid and CPR

At least two persons who are currently certified in first aid and CPR by the American Red Cross or other approved agency shall be onsite at all times during site operations. They shall be trained in universal precautions and the use of PPE as described in the Bloodborne Pathogens Standard of 29 CFR 1910.1030. These persons may perform other duties but shall be immediately available to render first aid when needed.

## 1.11.6 Safety and Health Technicians

# 1.11.6.1 Lead Health Physics Technician (HPT)

In addition to the Radiation Safety Officer (RSO), the Contractor shall ensure there is a Lead HPT present during on site work to assure such work is performed safely and in full compliance with all radiological requirements.

## 1.11.6.1.1 Qualifications

The Lead HPT shall have the following minimum qualifications:

- a. Senior HPT Land II.
- b. Seven years of documented applied on-the-job health physics technician experience or Registration with the National Registry of Radiation Protection Technologists (NRRPT)
- c. Meet training requirements specified in 1910.120e, HAZWOPER manager/supervisor training

# 1.11.6.1.2 Responsiblities

The responsibilities of the Lead HPT are described below:

- a. Implement the health physics program with only very general supervision.
- b. Supervise HP technicians
- Ensure that collected field data are reviewed for completeness and accuracy.
- d. Conduct without supervision, health physics surveys, inspections, and sampling.
- e. Perform tasks within applicable regulations, procedures, and guidelines.
- f. Review all work performed by HP personnel for soundness of technical judgement, accuracy, and completeness.
- g. Recommend procedural changes to improve working conditions, facilitate improvements to health physics and radiation protection procedures, and minimize the generation of radioactively contaminated waste.
- h. Make recommendation regarding the performance of work and the work environment to ensure doses to site workers and members of the general public are maintained as low as reasonably achievable (ALARA).

- Compile and maintain records regarding calibration of radiation and personnel monitoring instrumentation.
- j. Responsible for the direction and accuracy of all health physics activities performed by personnel working under their assigned tasks.

# 1.11.6.2 Senior Health Physics Technician I and II

The Contractor shall ensure that there are sufficient Senior HPTs present during on site work to assure such work is performed safely and in full compliance with all radiological requirements.

## 1.11.6.2.1 Qualifications, Senior HPT I

The Senior HPT I shall have the following minimum qualifications.

- a. High school diploma or equivalency
- b. Two years of college level training in health physics or an approved substitute and one year of directly related health physics experience qualifies an individual to serve as a Senior HPT.
- c. Junior Tech
- d. Three years of documented applied on-the-job health physics technician experience.
- e. A minimum of 80 hours of formal instruction in radiation safety fundamentals required to perform duties of the position.
- f. Successful completion of training required by 29 CFR 1910.120 and 10 CFR 19.

# 1.11.6.2.2 Responsibilities, Senior HPT I

The responsibilities of the Senior HPT I are described below.

- a. Conduct health physics surveys, inspections, and sampling.
- b. Recommend procedural changes to improve working conditions
- c. Facilitate improvements to health physics and radiation protection
- d. Minimize the generation of radioactively contaminated waste
- e. Make recommendations regarding the performance of work and the work environment to ensure doses to site workers and members of the general public comply with applicable standards and are maintained as low as reasonably achievable (ALARA).
- f. Compile and maintain records to include survey results and calibration of radiation and personnel monitoring instrumentation.
- g. Train other technicians as directed.
- h. Ensure that all subcontractor collected field data is complete and accurate.
- i. Perform shipping and receipt surveys of radioactive material
- j. Perform job coverage surveys and direct activities to ensure compliance with applicable regulations
- k. Perform and document personnel decontamination

# 1.11.6.2.3 Qualifications, Senior HPT II

The Senior HPT II shall have the following minimum qualifications.

- a. Senior HPT Tech I
- b. Five years of documented applied on-the-job health physics technician experience
- c. Registration with the National Registry of Radiation Protection Technologists (NRRPT)

## 1.11.6.2.4 Responsibilities, Senior HPT II

The responsibilities of the Senior HPT II are described below.

- a. Senior HPT Tech I
- b. Fulfill selected Lead Technician duties on an interim basis, as necessary.

## 1.11.6.3 Junior Health Physics Technicians (HPT)

The Contractor will provide junior HPTs as needed.

#### 1.11.6.3.1 Qualifications

The junior HPT must meet the following minimum qualifications:

- a. High school education or equivalency
- b. Knowledge of health physics and site specific procedures
- c. Reading and comprehension level sufficient to follow procedures, prepare survey maps, and prepare shipping maps
- d. Work in a support role, including communicating verbal instructions to others
- e. Successful completion of training required by 29 CFR 1910.120 and 10 CFR 19
- f. Minimum of 20 hours of formal instruction in the radiation safety fundamentals required to perform duties of the position prior to being assigned as an HPT with a minimum of 20 additional hours per year.

# 1.11.6.3.2 Responsibilities

The junior HPT will function under the direct supervision of the RSO or a senior HPT to:

- a. Perform radiological surveys, post areas, and collect samples.
- b. Compile and maintain records regarding calibration of radiation and personnel monitoring instrumentation.
- Conduct routine radiation contamination and airborne radioactivity surveys.
- d. Establish protective barriers and post appropriate radiological signs, including the use of protective clothing and respiratory protection equipment.
- e. Perform operability checks or radiation monitors and survey meters.

# 1.11.7 Certified Health Physicist (CHP)

The services of a health physicist certified by the American Board of Health Physics shall be utilized in the preparation of the SSHP and as needed during the project. The CHP must have a minimum of 3 years experience in HTRW work. If the CHP is not the Contractor's Safety and Health manager he/she shall report to the Safety and Health Manager regarding issues associated with this project. If the CHP is also the Safety and Health Manager, he/she must meet all the minimum qualifications required at 1.11.2.1. The CHP will review the personnel monitoring results, air sampling results, and any assignment of internal exposure to verify the accuracy, and conduct all dose evaluations and risk assessments. The CHP shall also review and concur with the SSHP to include revisions thereto that involve radiation protection.

## 1.11.8 Certified Safety Professional (CSP)

The services of a safety professional certified by the Board of Certified Safety Professionals shall be utilized in the preparation of the SSHP and as needed during the project. The CSP must have a minimum of 3 years experience in HTRW work and shall report to the Safety and Health Manager regarding issues associated with this project.

# 1.11.9 Radiation Safety Officer (RSO)

#### 1.11.9.1 Qualifications of RSO

An individual shall be designated the Radiation Safety Officer(RSO). The name, qualifications (education and training summary and documentation), and work experience of the RSO and alternate shall be included in the SSHP. The RSO shall report to the Contractor Safety and Health Manager. The RSO shall have the following qualifications:

- a. Bachelors degree in Health Physics or related field (equivalent education, training, and experience can be submitted for USACE concurrence in lieu of a bachelors degree for candidates that are otherwise qualified).
- b. A minimum of 3 years experience in implementing radiation protection programs at hazardous and radioactive waste sites with at least one year of experience being at a site or sites similar to the St. Louis FUSRAP HISS site. Equivalent experience accepted is at the discretion of the Contracting Officer (or the designated representative).
- c. Forty-hour safety training, three-day supervised field experience, and current eight-hour refresher training as required by 29 CFR 1926.65 (e)(4) and (e)(8).
- d. Working knowledge of Federal, state, and USACE radiation protection regulations and requirements.
- e. Specific training in personal and respiratory protective equipment program implementation, and in the proper use of radiological air monitoring to include radiological monitoring instruments, and air sampling methods.
- f. Eight additional hours of documented training specifically addressing the requirements of the Contractor's safety and health program and other topics, as required by 29 CFR 1926.65 (e)(4).

# 1.11.9.2 Responsibilities of RSO

#### The RSO shall:

- a. Assist and represent the Safety and Health Manager in onsite training and the day to day onsite implementation and enforcement of the accepted RPP.
- b. Be assigned to the site on a full time basis for the duration of field activities. The RSO can serve as the SSHO if qualifications for both are met and with approval by the Contracting Officer (or the designated representative) in concurrence with the District Safety Office Representative and the District Radiation Safety Officer.
- c. Have authority to ensure site compliance with specified radiation safety requirements, and all aspects of the RPP.
- d. Have authority to stop work if unacceptable radiation safety conditions exist, and take necessary action to re-establish and maintain safe working conditions.
- e. Consult with and coordinate any modifications to the RPP with the Safety and Health Manager, the Site Superintendent, and the Contracting Officer (or the designated representative).

- Serve as a member of the Contractor's quality control staff on matters relating to radiation safety.
- g. Review results of daily quality control inspections and document radiation safety findings into the Daily Safety Inspection Log.
- h. In coordination with site management and the Safety and Health Manager, recommend corrective actions for identified deficiencies and oversee the corrective actions.
- i. Approve and issue RWPs.
- j. Provide technical oversight for health physics technicians.

#### 1.12 TRAINING

Personnel shall receive training in accordance with the Contractor's written safety and health training program, EM 385-1-1 (06.E), 29 CFR 1926.65, 29 CFR 1926.21, 29 CFR 1910.120 and 10 CFR 19.12. The SSHP shall include a section describing training requirements.

## 1.12.1 General Hazardous Waste Operations Training

Personnel entering the controlled/contaminated areas of the site shall have successfully completed 40 hours of hazardous waste instruction off the site; 3 days of actual field experience under the direct supervision of a trained, experienced supervisor; and 8 hours of refresher training annually. Onsite supervisors shall have completed the above training and 8 additional hours of specialized training covering at least the following topics: the employer's safety and health program, personal protective equipment program, spill containment program, and health hazard monitoring procedures and techniques. Copies of current training certification statements shall be submitted prior to initial entry onto the work site.

Personnel who enter areas where radioactive materials are present will be trained to meet the requirements of EM 385-1-1 Section 06.E and 10 CFR 19. This requirement may be met through documented onsite training or a combination of off-site and on-site training and shall include the following information, as a minimum:

- Information regarding the storage, transfer, or use of radiation and/or radioactive materials.
- b. Instruction regarding the health protection problems associated with exposure to radiation and/or radioactive materials.
- c. Information regarding precautions or procedures to minimize exposure, and in the purposed of the protective devices employed.
- d. Instruction of the requirements to observe, to the extent within the workers control, the applicable provisions of 10 CFR 20 and EM 385-1-1 from the protection of personnel from exposure to radiation and/or radioactive materials.
- e. Instruction of a worker's responsibility to report promptly any condition which may lead to or cause a violation of 10 CFR 20 regulations or EM 385-1-1 or unnecessary exposure to radiation and/or radioactive materials.
- f. Instruction with regard to the appropriate response to warnings made in the event of any unusual occurrence or malfunction that may involve exposure to radiation and/or radioactive material.
- g. Information concerning the radiation exposure reports which workers may request in accordance with 10 CFR 19.13.

# 1.12.2 Site-Specific Training

Site-specific training sessions shall be documented in accordance with Section 01.B.03.b of EM 385-1-1.

## 1.12.2.1 Initial Session (Pre-Entry Briefing)

Prior to commencement of onsite field activities, all site employees, including those assigned only to the Support Zone, shall attend a site-specific safety and health training session (site orientation) of at least 4 hours duration. This session shall be conducted by either the Safety and Health Manager, the Site Safety and Health Officer, or Radiation Safety Officer to ensure that all personnel are familiar with requirements and responsibilities for maintaining a safe and healthful work environment. Procedures and contents of the accepted SSHP, RPP, and Section 01.B.02 and 28.D.03 of EM 385-1-1 shall be thoroughly discussed. Each employee shall be required to sign a company health and safety policy statement to verify that all have been informed of the health and safety program. The Contracting Officer (or the designated representative) shall be notified at least 5 days prior to the initial site-specific training session so government personnel involved in the project may attend.

The initial onsite training must include, at least:

- a. Worker rights and responsibilities including issues related to site radiological contamination.
- b. Names of site health and safety personnel and alternates.
- c. Contents of the project SSHP
- d. Hazards and symptoms of contaminant exposure
  - names of contaminants, primarily Th-230
  - exposure limits regulatory, administrative, external/internal, surface contamination
  - monitoring TLDs, ratemeters, survey instruments, air sampling, bioassays
  - pregnancy concerns and regulations related to exposure to ionizing radiation
- e. Physical, biological, chemical, safety, radiological and weather hazards in the workplace.
- f. Hazards and symptoms of chemicals used on site
- g. Location and availability of written hazard communication program
- h. Site and task PPE (including purpose, donning, doffing, proper use)
- i. Safe work practices to minimize risks
- j. Site specific materials handling requirements
- k. Safe use of engineering controls and equipment
- I. Medical surveillance requirements
- m. Site control measures restricted area access
- n. Reporting requirements for spills and emergencies
- o. PPE doffing and decontamination procedures to prevent the spread of radiological contamination
- p. Contingency plans (communications, phone numbers, emergency exits, assembly point, etc.)
- q. Hearing conservation (for noisy work if worker does not have documented hearing conservation training)
- r. Spill containment procedures (reporting, clean-up methods, etc.)
- s. Emergency equipment locations and use (fire extinguishers, eye wash, spill kits, etc.)

#### 1.12.2.2 Periodic Sessions

Daily tailgate safety meetings shall be conducted and documented by the Contractor prior to commencing work each day. The training shall address safety and health procedures, work practices, any changes in the SSHP, activity hazard analyses, work tasks, or schedule; results of

previous week's air monitoring, review of safety discrepancies and accidents. If an operational change that affects onsite fieldwork is made, a meeting will be held prior to implementation of the change to explain safety and health issues and procedures due to the change. Site-specific training sessions for new personnel, visitors, and suppliers shall be conducted by the SSHO using the training curriculum outlines developed by the Safety and Health Manager.

## 1.12.2.3 Other Training

#### 1.12.2.3.1 DOT Training

Persons involved in any aspect of the transportation of hazardous materials shall be trained in accordance with 49 CFR 172 Subpart H. This applies specifically to the packaging and transport of waste from the site to the disposal facility as approved by the Contracting Officer (or the designated representative).

# 1.12.2.3.2 Respiratory Protection Training and Fit Testing

If the Contractor is required to provide and issue respirators, training and fit testing in accordance with 29 CFR 1910.134 and 10 CFR 20 is required. The Contractor shall train and fit test each employee who wears a respirator in accordance with the Contractor's Respiratory Protection Program. Fit tests shall be quantitative.

# 1.12.2.3.3 Lockout and Tagout Training

Persons involved with the service or maintenance of equipment or systems where the unexpected energizing, start up, or release of hazardous energy could occur and cause injury or damage shall be trained in Lockout/Tagout procedures in accordance with 29 CFR 1926.417 and EM 385-1-1 Section 12.

# 1.12.2.3.4 Fire Watch Training

Persons designated as a fire watch shall be trained by the Contractor. Training shall include site specific training on fire alarm initiation, and "hands on" training in the use of portable fire extinguishers. Training shall also include proper selection, use, and application of extinguishing agents, characteristics and classifications of fires.

## 1.12.2.4 HP Technician Training

In addition to meeting the minimum requirements of Section 1.11.7 and 1.11.8, the Contractor shall certify that each HPT is trained, in writing (i.e., a qualification card), on each standard operating procedure they use to implement the requirements of the RPP. The qualification card shall be signed by the RSO or Safety and Health Manager. Individuals not certified on the Contractors SOPs are not authorized to perform functions detailed by SOPs.

#### 1.13 PERSONAL PROTECTIVE EQUIPMENT

# 1.13.1 General

In accordance with 29 CFR 1926.65 (g)(5), a written Personal Protective Equipment (PPE) program which addresses the elements listed in that regulation, and which complies with respiratory protection program requirements of 29 CFR 1910.134 is to be included in the employer's Safety and Health Program. The Site Safety and Health Plan shall detail the minimum PPE requirements (including respirators) and specific materials from which the PPE components are constructed for each site-specific task and operation to be performed, based

upon the hazard/risk analysis. Components of levels of protection (B, C, D, and modifications) must be relevant to site-specific conditions, including heat and cold stress potential and safety hazards. Only respirators approved by NIOSH shall be used. Onsite personnel shall be provided with appropriate personal protective equipment. Protective equipment and clothing shall be kept clean and well maintained. The PPE section of the SSHP shall include site-specific procedures to determine PPE program effectiveness and for onsite fit-testing of respirators, cleaning, maintenance, inspection, and storage of PPE.

# 1.13.2 Levels of Protection

The Safety and Health Manager shall establish appropriate levels of protection for each work activity based on review of historical site information, existing data, an evaluation of the potential for exposure (inhalation, dermal, ingestion, and injection) during each task, past air monitoring results, and a continuing safety and health monitoring program. The Safety and Health Manager shall also establish action levels for upgrade or downgrade in levels of PPE from the following specified minimum levels of protection. Protocols and the communication network for changing the level of protection shall be described in the SSHP. The PPE reassessment protocol shall address air monitoring results, potential for exposure, changes in site conditions, work phases, job tasks, weather, temperature extremes, individual medical considerations, etc.

## 1.13.2.1 Components of Levels of Protection

The following items constitute minimum protective clothing and equipment ensembles to be utilized during this project:

## Level "D" PPE

Employees shall wear clothing suitable for the weather and work conditions. The minimum PPE for field work shall be:

Shirt with sleeves (EM 385-1-1 Section 5.A.07)

Long trousers (EM 385-1-1 Section 5.A.07)

Steel-toe Leather or protective work shoes or boots that meet the applicable requirements of ANSI Z41 - (EM 385-1-1 Section 5.A.07)

**Reflective safety vests** - (required for personnel exposed to vehicular or equipment traffic, including signal persons, spotters, inspectors, etc. - EM 385-1-1 Section 5.A.07)

**Hardhat** that meets the applicable requirements of ANSI Z89.1 – (required in construction areas and areas where there is a potential for injury to the head from falling objects)

**Safety glasses** with side shields that meet the applicable requirements of ANSI Z87.1 – (required when machines or operations present potential eye or face injury from physical, chemical, or radiation agents)

**Hearing protection** – (required in areas where personnel are exposed to sound levels equal to or greater than an 8-hr Time Weighted Average of 85 dB(A). Hearing protectors must reduce the employee's noise exposure below or equal to an 8-hr Time Weighted Average of 85 dB(A))

**Gloves** – (appropriate glove type is required when employees hands are exposed to hazards such as those from skin absorption of harmful substances; severe cuts or lacerations; chemical burns; thermal burns; and harmful temperature extremes)

Modified Level "D" PPE-

Level "D" PPE and
TYVEK Coveralls (Disposable)
Disposable boot covers or reusable overboots
Disposable inner gloves
Disposable outer gloves

NOTE: Glove type should be commensurate with hazard involved

#### Level "C" PPE -

Modified Level "D" PPE and an addition of full-face air purifying respirators equipped with cartridges appropriate for the anticipated hazard.

## 1.13.2.2 Initial Minimum Levels of PPE by Task

Based on available information, the initial minimum protective equipment requirements for each major task and operation are listed below. Available site information shall be reviewed and the list of tasks and operations and these levels of protection shall be expanded and/or revised during preparation of the SSHP. All equipment shall meet the specifications listed in Table 01351-4, OSHA Standards for Use of PPE.

The "Initial Level of Protection" is based on the assumption that during excavation the high activity materials will be mixed with surrounding lower activity materials lowering the airborne hazard and that the Contractor has procedures in place for determining work area airborne concentrations and has established action levels to control worker exposure.

# Task/OperationInitial Level of ProtectionAll Operations (non-contaminated areas)DEquipment Operation (contaminated areas)Modified $D^{(1)}$ Non-Intrusive work (contaminated areas)Modified $D^{(1)}$ Any task with potential for personal contaminationModified $D^{(1)}$

<sup>(1)</sup> It is not anticipated that any task will require respiratory protection. However, upgrade to level C may be required if engineering controls do not reduce airborne concentrations to desired levels.

Table 01351 – 4 OSHA STANDARDS FOR USE OF PPE				
TYPE OF PROTECTION				
	REGULATION	SOURCE		
		41 CFR Part 50-204.7 General		
	29 CFR Part 1926.95	Requirements for Personal Protective		
		Equipment		
General		41 CFR Part 50-204.50, except for table		
	29 CFR Part 1910.1000	Z-2, the source of which is ANSI Z3		
		series (*)		
	29 CFR Part 1926.1100-1152	OSHA Rulemaking		
		ANSI Z87.1 (*) Eye and Face Protection		
Eye and Face	29 CFR Part 1926.102			
		41 CFR Part 50-204.10 and OSHA		
Hearing Protection	29 CFR Part 1926.101	Rulemaking		
		ANSI Z88.2 (*) Standard Practice for		
Respiratory Protection	29 CFR Part 1926.103	Respiratory Protection		
		ANSI Z89.1 (*) Safety Requirement for		
Head Protection	29 CFR Part 1926.100	Industrial Head Protection		
		ANSI Z41.1 (*) Men's Safety Toe		
Foot Protection	29 CFR Part 1926.96	Footwear		
		ANSI Z9.4 (*) Men's Safe Practices		
Electrical Protection	29 CFR Part 1926.416	Devices of Abrasive Blasting		
		Operations		
(*) = Latest Version				

#### 1.13.3 PPE for Government Personnel

Clean sets of personal protective equipment and clothing (excluding safety shoes, which will be provided by individual visitors), as required for entry into controlled/restricted areas of the site, shall be available for use by the Contracting Officer (or the designated representative) or official visitors. Air-purifying negative-pressure respirators for use by the Contracting Officer (or the designated representative) or official visitor shall be cleaned, maintained and properly stored by the Contractor as necessary. The Contractor shall provide basic training in the use and limitations of the PPE provided and institute administrative controls to check prerequisites prior to issuance. Such prerequisites shall include minimum training requirements for the work tasks to be performed and medical clearance for site hazards and respirator use. The Contractor shall consult the construction division or resident area engineer for the number of sets of PPE for government personnel.

#### 1.14 MEDICAL SURVEILLANCE

The Safety and Health Manager, in conjunction with the Occupational Physician, shall detail, in the employer's Safety and Health Program and the SSHP, the medical surveillance program that includes scheduling of examinations, certification of fitness for duty, compliance with OSHA requirements, and information provided to the physician. Examinations shall be performed by or under the supervision of a licensed physician, preferably one knowledgeable in occupational medicine, and shall be provided without cost to the employee, without loss of pay and at a reasonable time and place. Medical surveillance protocols and examination and test results shall be reviewed by the Occupational Physician. The medical surveillance program shall contain the requirements specified below. Personnel working in contaminated areas of the site shall have been examined as prescribed in 29 CFR 1926.65, and determined medically fit to perform their duties. Personnel required to wear respiratory protection shall have been examined as prescribed in EM 385-1-1 Section 05.E, 29 CFR 1926.103, and 29 CFR 1910.134 "Respiratory Protection".

## 1.14.1 Frequency of Examinations

Employees shall have been provided with medical examinations as specified, within the past 12 months and shall receive exams annually thereafter (if the contract exceeds one year); on termination of employment; reassignment in accordance 29 CFR 1926.65 (f)(3)(i)(C); if the employee develops signs or symptoms of illness related to workplace exposures; if the physician determines examinations need to be conducted more often than once a year; and when an employee develops a lost time injury or illness during the period of this contract. The supervisor shall be provided with a written statement signed by the physician prior to allowing the employee to return to the work site after a work related injury or illness resulting in a lost work day, as defined in 29 CFR 1904.12 (f).

## 1.14.2 Content of Examinations

The content of medical examinations or consultations made available to employees requiring medical surveillance in accordance with EM 385-1-1 Sections 28.A.06 and 05.E.04, 29 CFR 1926.65(f), 29 CFR 1926.103, and 29 CFR 1910.134 shall be determined by the attending physician. The attending physician should consult the guidelines in the *Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities* and may include the following elements. Additional elements may be included at the discretion of the occupational physician responsible for reviewing the medial surveillance protocols.

a. Complete medical and occupational history (initial exam only).

- b. General physical examination of major organ systems.
- c. Pulmonary function testing including FVC and FEV1.0.
- d. CBC with differential.
- e. Blood chemistry screening profile (e.g. SMAC 20/25).
- f. Urinalysis with microscopic examination.
- g. Audiometric testing (as required by Hearing Conservation Program).
- h. Visual acuity.
- i. Chest x-ray. (This test should be performed no more frequently than every 4 years, unless directed by Occupational Physician).
- j. Electrocardiogram (as directed by Occupational Physician).

## 1.14.3 Information Provided to the Occupational Physician

The physician shall be furnished with the following:

- a. Information on representative sites and contaminants potentially encountered by the employees.
- b. Information on the employee's anticipated or measured exposure.
- A description of any PPE used or to be used.
- d. A description of the employee's duties as they relate to the employee's exposures (including physical demands on the employee and head/cold stress).
- e. A copy of 29 CFR 1926.65.
- f. Information from previous examinations not readily available to the examining physician.
- g. A copy of Section 5.0 of NIOSH Pub No. 85-115.
- h. Information required by 29 CFR 1926.134.

## 1.14.4 Physician's Written Opinion

Before work begins a copy of the physician's written opinion for each employee shall be obtained and furnished to the Safety and Health Manager and the employee. The physician's written opinion shall be provided as part of the Certificate of Work or Visitor Acknowledgement. The opinion shall address the employee's ability to perform hazardous remediation work and wear respirator protection (as applicable) and shall contain the following:

- a. The physician's recommended limitations upon the employee's assigned work and/or PPE usage.
- The physician's opinion about increased risk to the employee's health resulting from work.

 A statement that the employee has been informed and advised about the results of the examination.

#### 1.14.5 Medical Records

Medical records shall be maintained by the employer in accordance with EM 385-1-1 Appendix K and 29 CFR 1926.65.

#### 1.15 RADIATION DOSIMETRY (RADIATION PROTECTION REQUIREMENTS)

A radiation protection and dosimetry program shall be described in the RPP and implemented in accordance with 10 CFR 20. The Contractor shall perform and document a formal evaluation to determine if individual monitoring is required in accordance with 10 CFR 20.1502. Contractors should use NRC Regulatory Guide 8.34 for guidance on completing this evaluation. If the Contractor is not required to perform monitoring in accordance with 10 CFR 20, confirmatory radiological exposure monitoring shall be conducted for employees working within the radiologically restricted area that are likely to exceed 100 mrem/yr. If the formal evaluation concludes that external or internal exposure is not likely to exceed 100 mrem/yr, no monitoring is required. See Section 1.16 for minimum monitoring requirements.

## Occupational Exposure Limits

Radiation exposure limits must be at least as protective as those in Table 01351-5 on the next page, except that the Contractor shall incorporate appropriate ALARA goals in the SSHP.

TABLE 01351-5 RADIATION EXPOSURE LIMITS <sup>a</sup>				
Effected Individual	Period	REM		
		Limit Per NRC	Administrative Control Levels <sup>b</sup>	Suggested ALARA Limits
Whole Body	Annual	5	0.5	0.1
Individual Organ	Annual	50	5	0.5
Lens of Eye	Annual	15	1.5	0.15
Skin	Annual	50	5	0.5
Declared Pregnant Radiation Worker	Gestation Period (9 Months)	0.5	0.5	0.04/month <sup>c</sup>

<sup>&</sup>lt;sup>a</sup> From EM 385-1-1 06.E.4 and EM 385-1-80

The Contractor shall demonstrate compliance with the limits specified in Table 01351-5 by summing internal and external exposures (if monitoring for both is required). If the Contractor is only required to monitor for internal or external exposure summation is not required in order to demonstrate compliance with dose limits. The Contractor may demonstrate compliance with the requirements for summation of internal and external exposures by meeting one of the following conditions:

<sup>&</sup>lt;sup>b</sup> Exceedence requires written approval of RSO

<sup>&</sup>lt;sup>c</sup> Level set by USACE RPSO. EM 385-1-80, page 7-5, para. 7-3(d)(3)

- a. If the only intake of radionuclides is by inhalation, the total effective dose equivalent (TEDE) limit is not exceeded if the sum of the deep dose equivalent (DDE) divided by the TEDE and one of the following does not exceed unity (1.0):
  - The sum of the fractions of the inhalation ALI for each radionuclide,
  - The total number of derived concentration hours (DAC-hrs) for all radionuclides divided by 2000, or
  - The sum of the calculated committed effective dose equivalents (CEDE) to all significantly irradiated organs or tissues calculated from bioassay data using appropriate biological models and expressed as a fraction of the annual limit
- b. If the occupationally exposed individual also receives an intake of radionuclides by oral ingestion greater than 10% of the oral ALI, then the Contractor shall account for this exposure and include it when demonstrating compliance with the annual limit.
- c. The Contractor shall evaluate and, to the extent practical, account for intakes through wounds or skin absorption.

# Determination of Internal Exposure

Determination of internal exposure to demonstrate compliance with occupational dose equivalent limits shall be conducted in accordance with 10 CFR 20.1204 and as outlined in the FUSRAP Internal Dosimetry Technical Basis Manual.

#### 1.15.1 Evaluation

An individual or company holding current personnel dosimetry accreditation from the National Voluntary Laboratory Accreditation Program (NVLAP) shall evaluate radiation dosimetry. Electronic dosimetry may be used to assign external dose if approved by the Contracting Officer (or the designated representative). A Certified Health Physicist shall determine internal radiation dose. Internal dose will be determined primarily with measured air sample concentrations and worker stay times. Bioassay results will be used to supplement the air monitoring data.

# 1.15.2 Documentation

The Contractor shall maintain records of the radiation protection program, including the provisions of the program, audits and reviews of program content, and implementation of the program.

Records shall be maintained showing the results of surveys and calibrations in accordance with 10 CFR 20.2103.

If informal evaluation indicates radiological exposure monitoring is required in accordance with 10 CFR 20.1502, individual employee exposure records pertaining to internal and external radiation exposure monitoring shall be maintained in accordance with 10 CFR 20.2106. If monitoring is not required there are no requirements for maintaining individual employee exposure records.

The Contractor shall maintain records of exposure history in accordance with 20 CFR 20.2104 for all employees who are required to be monitored in accordance with 20 CFR 1502. If the employee has no exposure history, the employee shall provide a signed written statement to that effect.

# 1.15.3 Bioassay

Bioassays will supplement air-monitoring data for individual monitoring of internal radiation exposure. At a minimum, baseline and termination bioassays shall be required for all workers. Termination (exit) bioassays from another site (or employer) are acceptable for baseline bioassays at the St. Louis FUSRAP (or when changing from one contractor to another within the project). The accumulation of DAC-hrs will form the basis for requiring "special" (non-routine) bioassays. FUSRAP site bioassay requirements and dose assessment methodology can be found in the St. Louis FUSRAP Internal Dosimetry Technical Basis Manual. The Contractor may determine that internal monitoring is not required. If so, the Contractor shall document the evaluation in writing and submit to the USACE for concurrence.

## 1.15.4 Reporting

The reporting requirements of 10 CFR 20.2206 are applicable if radiation exposure monitoring is required under 10 CFR 20.1502. If monitoring is required, then reports of radiation exposure monitoring shall be furnished to the Contracting Officer (or the designated representative) as soon as available and to each employee annually, upon termination, and within 30 days after the results are received following any personal request in accordance with 10 CFR 19.13 and 10 CFR 20.2206.

The Contractor, at the request of a worker who is terminating employment with the Contractor that involved exposure to radiation or radioactive materials during the current calendar quarter or the current year, shall provide a written report regarding the radiation exposure received by the worker. If the most recent individual monitoring results are not available at that time, a written estimate of the exposure must be provided together with a clear indication that it is an estimate.

#### 1.16 EXPOSURE MONITORING/AIR SAMPLING PROGRAM

The Safety and Health Manager shall prepare and implement an exposure monitoring/air sampling program to identify and quantify safety and health hazards and airborne levels of hazardous substances in order to assure proper selection of engineering controls, work practices and personal protective equipment for affected site personnel. Available site information shall be reviewed and the exposure monitoring/air sampling program shall be submitted as part of the SSHP. As a minimum the following monitoring will be conducted.

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	Table 01351-6 MONITORING	
MONITORING	AREA	INTERVAL
Total dust	In areas where dust may be generated	Continuously during potential dust- generating activities
Temperature	In or near work area	At least twice daily to record approximate lowest and highest temperatures
Noise	Around heavy equipment and other areas with elevated noise levels	At project initiation and any time potential noise exposures change
Total organic vapor	In areas of known or suspected chemical contamination	There are no areas of known or suspected chemical contamination that would cause organic vapor concentrations at or above 5 ppm. Therefore, total organic vapor monitoring is not anticipated. However, organic vapor monitoring equipment shall be available in the event that conditions change.
Bioassay for internal radiological contamination	All workers within restricted areas likely to exceed 10% of the ALI listed in Appendix B of 10 CFR 20. Confirmatory monitoring is required for all workers or work areas when an individual is likely to exceed 100 mrem/yr CEDE.	Entrance, termination, and routine at a frequency specified by the Contractor CHP.
Removable surface contamination determined by smearing surface of 100cm <sup>2</sup> .	All equipment and items removed from restricted areas	Each exit from controlled/restricted area. Routine surveys (i.e., outside the controlled area in offices, break rooms, etc.) at the discretion of the Contractor CHP.
Sampling for airborne radionuclides (as appropriate) Analysis MDA ≤ 10% of Th-230 DAC	Breathing zone in areas of intrusive work and other areas with potential airborne radionuclides at >5% of the DAC. General area sampling in work areas.	Daily for at least one representative employee per job classification. Daily general area air samples shall be taken in the work area at a frequency specified by the Contractor CHP.
Radiological contamination with survey instrument.	Personnel and equipment at boundary of areas that are known or suspected to be radiologically contaminated	Upon exit from controlled/restricted areas
External ionizing radiation with TLDs (MDA ≤ 10 mrem)	All workers within restricted areas likely to exceed 10% of the dose limits of 10 CFR 20.1201. Confirmatory monitoring is required for all workers or work areas when an individual is likely to exceed 100 mrem/yr DDE	Continuously when inside restricted areas where monitoring is required.
Real time radon gas and/or working level meters	Used in general work areas to determine exposure to radon	In areas where radium concentrations in soil exceed 500 pCi/g <sup>a</sup> . It is not anticipated that Ra-226 concentration will exceed 500 pCi/g therefore radon monitoring should not be necessary.

<sup>&</sup>lt;sup>a</sup> Action level derived in FUSRAP Technical Work Record "Determination of Radium 226 Soil Concentration Projected to Create Elevated Radon 222 Concentrations During Excavation at FUSRAP St. Louis."

## 1.17 HEAT AND COLD STRESS MONITORING

The Safety and Health Manager shall develop a heat stress and cold stress monitoring program for onsite activities. Details of the monitoring program, including schedules for work and rest, and physiological monitoring requirements, shall be described in the SSHP. Personnel shall be trained to recognize the symptoms of heat and cold stress. The SSHO and an alternate person shall be designated, in writing, to be responsible for the heat and cold stress monitoring program.

#### 1.17.1 Heat Stress

Physiological monitoring shall commence when the ambient temperature is above 70 degrees F and protective clothing is required for the work activity. Monitoring may also be required for workers engaged in strenuous activity regardless of protective clothing requirements. Monitoring frequency shall increase as the ambient temperature increases or as slow recovery rates are observed. An adequate supply of cool drinking water shall be provided for the workers. NIOSH Pub No. 85-115 may be consulted for guidance in determining protocols for prevention of heat stress.

## 1.17.2 Cold Stress

To guard against cold injury, appropriate clothing and warm shelter for rest periods shall be provided. Procedures to monitor and avoid cold stress shall be followed in accordance with the current TLVs for Cold Stress as recommended in the ACGIH TLV booklet.

# 1.18 SAFETY PROCEDURES, ENGINEERING CONTROLS AND WORK PRACTICES

The SSHP shall describe the standard operating safety procedures, engineering controls, and safe work practices to be implemented for the work covered. These shall include, but are not limited to, the following:

#### 1.18.1 General Site Rules/Prohibitions

General site rules/prohibitions (buddy system, eating, drinking, and smoking restrictions, etc.) shall be followed. Additional information and requirements, such as the levels of disciplinary action to be taken for breaking rules (e.g. verbal warning, written warning, termination, etc.), shall be included in the SSHP.

# 1.18.2 Work Permit Requirements

The Contractor shall be responsible for obtaining all required work permits potentially including, but not limited to, radioactive work, excavation clearance, and hot work.

#### 1.18.3 Material Handling Procedures

The Contractor shall follow all project requirements as contained in the Specifications and Drawings; EM 385-1-1, Section 14 "Material Handling, Storage and Disposal" and Section 15 "Rigging"; and 29 CFR 1926 Subpart H "Materials Handling, Storage, Use, and Disposal". Procedures and precautions shall be included in the SSHP.

# 1.18.3.1 Spill and Discharge Control

The Contractor shall develop and implement written procedures for managing spill containment/cleanup and discharge control in accordance with all "Emergency Response"

requirements. Refer to 1.23 Emergency Response and Contingency Procedures below. Procedures and precautions shall be included in the SSHP.

Temporary staging or storage of contaminated material or hazardous materials shall be appropriately bermed, diked and/or contained to prevent any spillage of material on uncontaminated soil. If the spill or discharge is reportable, and/or human health or the environment is threatened, the USACE SSHO and the Contracting Officer (or the designated representative) shall be notified as soon as possible. The Contractor shall also make all necessary notifications to the Nuclear Regulatory Commission (NRC) and the State.

## 1.18.3.2 Materials Transfer Safety

It is not expected that petroleum based liquids and residues will need to be removed from tanks. In the event that the Contractor must perform this activity, the Contractor shall follow all applicable requirements found in EM 385-1-1, and 29 CFR 1926. The underground storage tank removal process shall be in accordance with the procedures of American Petroleum Institute (API) Recommended Practice 1604, Removal and Disposal of Underground Petroleum Storage Tanks.

## 1.18.4 Drum and Container Handling

Handling drums and containers is not expected. In the event that the Contractor must handle hazardous, toxic, or radioactive waste drums or containers, the Contractor shall follow all requirements as contained in EM 385-1-1, Section 28.H "Handling Drums and Containers" and 29 CFR 1926.65 (j) "Handling drums and containers".

## 1.18.5 Confined Space Entry Procedures

Entrance into confined spaces is not expected. In the event that the Contractor must enter a confined space, the Contractor shall follow all requirements as contained in EM 385-1-1, Section 6.I "Confined Space"; and 29 CFR 1910.146 "Permit-required confined spaces".

## 1.18.6 Hot Work

Hot Work includes welding, cutting, grinding, sawing, or other similar operations that could be expected to potentially generate combustion-producing temperatures or sparks, or which could produce potentially hazardous fumes or vapors. Hot work is not expected. In the event that the Contractor must perform hot work, the Contractor shall follow all requirements as contained in EM 385-1-1 Section 10 "Welding and Cutting" and 29 CFR 1926 Subpart J "Welding and Cutting". Prior to conducting hot work, a hot work permit shall be prepared and submitted. An individual at each hot work site shall be designated and trained as a fire watch. This person's sole responsibility shall be to monitor the hot work and have immediate access to the fire extinguisher located at each hot work site. A new permit shall be obtained at the start of each work shift during which hot work will be conducted.

## 1.18.7 Ignition Sources

Refer to Section 01351 - 1.18.8 Fire Protection and Prevention

# 1.18.8 Fire Protection and Prevention

The Contractor shall follow all project requirements as contained in the Specifications and Drawings; EM 385-1-1 Section 9 "Fire Prevention and Protection"; and 29 CFR 1926 Subpart F "Fire Protection and Prevention". Procedures and precautions shall be included in the SSHP.

# 1.18.9 Electrical Safety

The Contractor shall follow all project requirements as contained in the Specifications and Drawings; EM 385-1-1 Section 11 "Electrical"; and 29 CFR 1926, Subpart K "Electrical". Procedures and precautions shall be included in the SSHP.

#### 1.18.10 Excavation and Trench Safety

Procedures and precautions shall be included in the SSHP and shall be in accordance with the requirements of Section 02221 SOIL REMOVAL of these specifications. The Contractor shall utilize a formal process to avoid utilities. This process will be documented by completion of the Field Safety Checklist located in Section 02221 SOIL REMOVAL of these specifications.

# 1.18.11 Guarding of Machinery and Equipment

The Contractor shall follow all requirements as contained in EM 385-1-1 Section 16.B "Guarding and Safety Devices"; and 29 CFR 1910, Subpart O "Machinery and Machine Guarding". Procedures and precautions shall be included in the SSHP.

## 1.18.12 Lockout/Tagout

The Contractor shall follow all project requirements as contained in the Specifications and Drawings; EM 385-1-1 Section 12 "Control of Hazardous Energy (Lockout/Tagout)"; 29 CFR 1926.417 "The control of hazardous energy (lockout/tagout)". Procedures and precautions shall be included in the SSHP.

#### 1.18.13 Fall Protection

The Contractor shall follow all project requirements as contained in the Specifications and Drawings; EM 385-1-1 Section 21.C "Personal Fall Protection Devices and Safety Nets"; and 29 CFR 1926 Subpart M "Fall Protection". Procedures and precautions shall be included in the SSHP.

## 1.18.14 Hazard Communication

Provide written procedures to meet the requirements of 29 CFR 1926.59 and EM 385-1-1 Sections 01.B.04, 06.B, and 08.A. Procedures and precautions shall be included in the SSHP.

#### 1.18.15 Illumination

Outside operations will commence no earlier than 15 minutes after sunrise and conclude no later than 15 minutes prior to sunset. Since most activities will be conducted during daylight hours, field illumination measurements will not normally be required. However, if activities require outside work to be done at night, a minimum of 5 ft-candles will be required. Office areas will be illuminated at 50 ft-c or more. The Contractor shall ensure that minimum illumination intensities follow the requirements in 29 CFR 1926.56.

# 1.18.16 Sanitation

The Contractor shall provide the following as a minimum per EM 385-1-1 Section 2 and 29 CFR 1926.51:

- Means for washing hands and faces prior to eating or leaving the jobsite and after restroom use.
- b. Potable drinking water in a clearly marked, closed, sanitary container with a tap, sanitary cups, and a waste receptacle for used cups.

# c. Toilets according to the following:

- < 20 employees 2 toilets
- > 20 employees 1 toilet seat and 1 urinal per 40 workers in addition to the two toilets noted above.

# 1.18.17 Engineering Controls

A dust suppression and water management plan shall be developed to minimize potential radiological exposure to workers and surrounding properties. The plan shall be submitted as part of the SSHP.

## 1.18.18 Process Safety Management

Work activities are not expected to require the application of process safety management. In the event that the Contractor must perform work activities requiring the application of process safety management, the Contractor shall follow all requirements in EM 385-1-1 and 29 CFR 1910.119.

## 1.18.19 Signs and Labels

In order to give adequate warning and caution of hazards and instruction and directions to workers and the public, the Contractor shall follow all sign, tag, and label requirements as found in EM 385-1-1 Section 8, 29 CFR 1926 Subpart G, and 10 CFR 20 Subpart J.

## 1.18.20 Waste Disposal

Refer to Section 02120 - TRANSPORTATION OF HAZARDOUS MATERIALS.

#### 1.19 SITE CONTROL MEASURES

In order to prevent the spread of contamination and control the flow of personnel, vehicles, and materials into and out of work areas, site control measures shall be established and described in the SSHP. The SSHP shall describe the methodology to be used by the Safety and Health Manager and SSHO in determining work zone designations and their modifications, and procedures to limit the spread of contamination. The SSHP shall include procedures for the implementation and enforcement of safety and health rules for all persons on the site, including employers, employees, outside Contractors, government representatives, and visitors. As a minimum, the Contractor shall establish and post restricted areas.

#### 1.19.1 Work Zones

Initial anticipated work zone boundaries shall be shown on the Contractor's site plan. Utilizing this guidance, work zone boundaries (controlled areas, including restricted and regulated areas; and the support zone) and access points shall be established and the boundary delineations shall be included and in the SSHP. Radiological restricted areas will be designated and posted to preclude entry of unauthorized personnel. Delineation of work zone boundaries shall be based on the contamination characterization data and the hazard/risk analysis to be performed as described in paragraph: HAZARD/RISK ANALYSIS. Ingress/egress, decontamination and laydown/storage areas shall be shown on the Contractor's Site Plan. Modification can be made with approval of the Contracting Officer (or the designated representative). As work progresses and field conditions are monitored, work zone boundaries may be modified with approval of the Contracting Officer (or the designated representative). Work zones shall be clearly identified and marked in the field (using fences, tape, signs, etc.). A site map, showing work zone boundaries and locations of decontamination facilities, shall be posted in the onsite office and access control point to the restricted area. Work zones shall consist of the following:

Restricted Area: This is the area where hazardous contamination is either known or expected to occur and the greatest potential for exposure exists. Entry into, and exit from, this area shall be controlled by the Contractor.

Support Zone (SZ): The Support Zone is defined as areas of the site, other than controlled areas, where workers do not have the potential to be exposed to hazardous substances or dangerous conditions resulting from hazardous waste operations. The Support Zone shall be secured against active or passive contamination. Site offices, parking areas, and other support facilities shall be located in the Support Zone.

# 1.19.2 Site Control Log

A log of personnel visiting, entering, or working on the site shall be maintained. The log shall include the following: date, name, agency or company, time entering and exiting the controlled area (if applicable). Before visitors are allowed to enter the Controlled Area, they shall show proof of current training, medical surveillance and respirator fit testing (if respirators are required for the tasks to be performed) and shall fill out the Certificate of Worker or Visitor Acknowledgment. This visitor information, including date, shall be recorded in the log.

#### 1.19.3 Communication

An employee alarm system that has adequate means of on and off site communication shall be provided and installed in accordance with 29 CFR 1910.165. The means of communication shall be able to be perceived above ambient noise or light levels by employees in the affected portions of the workplace. The signals shall be distinctive and recognizable as messages to evacuate or to perform critical operations. A description of the alarm system shall be included as part of the SSHP.

## 1.19.4 Site Security

The following site security shall be provided:

Traffic Barriers (Section 01500 – TEMPORARY CONSTRUCTION ACTIVITIES).

Signs shall be printed in bold large letters on contrasting backgrounds in English. Signs shall be visible from all points where entry might occur and at such distances from the controlled area that employees may read the signs and take necessary protective steps before entering. Signs shall meet requirements of 10 CFR 20 and EM 385-1-1.

## 1.20 PERSONAL HYGIENE AND DECONTAMINATION

Personnel entering the Controlled Area or otherwise exposed or subject to exposure to hazardous chemical vapors, liquids, or contaminated solids shall adhere to the following personal hygiene and decontamination provisions. Doffing of PPE shall be performed prior to entering the Support Zone from the Controlled Area and workers survey themselves for radioactive contamination. Chapter 10.0 of NIOSH Pub No. 85-115 shall be consulted when preparing decontamination procedures. A detailed discussion of personal hygiene and decontamination facilities and procedures to be followed by site workers shall be submitted as part of the SSHP. Employees shall be trained in the procedures and the procedures shall be enforced throughout site operations. Persons disregarding these provisions of the SSHP shall be barred from the site.

# 1.20.1 Personnel Decontamination Facilities

A personnel decontamination system shall be provided. Both Contractor personnel and government representatives shall use this system. As a minimum, the Contractor will provide a buffer area with marked locations for doffing PPE, an adhesive step-off pad, and provision for

performing radiological surveys of personnel and equipment. The Contractor must also make provisions to decontaminate personnel who may become radiologically contaminated. Provision will also be made to allow personnel to wash their faces and hands prior to eating and drinking.

# 1.20.2 Procedures

Procedures for personnel decontamination shall be developed and utilized to prevent the spread of contamination out of the Controlled Area and to minimize the radiological impact of the contamination incident. These procedures will be submitted as part of the SSHP.

#### 1.21 EQUIPMENT DECONTAMINATION

Vehicles and equipment used in areas of known or suspected contamination shall be decontaminated prior to leaving the site controlled area. The standard operating procedures (SOP) for decontamination of vehicles and equipment shall be addressed in the SSHP. Decontamination must meet the total surface activity requirements of ANSI 13.12-1999, "Surface and Volume Radioactivity Standards for Clearance" or other USACE approved guidance. For ALARA purposes, the Contractor shall not release equipment until the removable radioactive contamination levels are less than or equal to 20% of the limits specified below, or other USACE approved guidance. Water used for decontamination must be managed in accordance with the Contractor's Environmental Protection Plan.

**Table 01351-7 Surface Contamination Levels** 

Radionuclide Groups <sup>a</sup>	Screening Levels <sup>b</sup>	Surface Screening <sup>bf</sup>	Volume Screening <sup>b</sup>
	(Bq.cm <sup>2</sup> or Bq/g) <sup>c</sup>	dpm/100 cm <sup>2</sup>	pCi/g
Group 1: Radium, Thorium, and Transuranics: <sup>210</sup> Po, <sup>210</sup> Pb, <sup>226</sup> Ra, <sup>228</sup> Ra, <sup>228</sup> Th, <sup>230</sup> Th, <sup>237</sup> Np, <sup>239</sup> Pu, <sup>240</sup> Pu, <sup>241</sup> Am, <sup>244</sup> Cm, and			
associated decay chains (d), and others (a)	0.1	600	3
Group 2 Uranium and Selected High Dose Beta Emitters: <sup>22</sup> Na, <sup>54</sup> Mn, <sup>58</sup> Co, <sup>60</sup> Co, <sup>65</sup> Zn, <sup>90</sup> Sr, <sup>94</sup> Nb, <sup>106</sup> Ru, <sup>110m</sup> Ag, <sup>124</sup> Sb, <sup>134</sup> Cs, <sup>137</sup> Cs, <sup>152</sup> Eu, <sup>154</sup> Eu, <sup>192</sup> Ir, <sup>234</sup> U, <sup>235</sup> U, <sup>238</sup> U, natural			
uranium(*), and others(*)	1.0	6,000	30
Group 3 General Beta-gamma Emitters: <sup>24</sup> Na, <sup>36</sup> Cl, <sup>59</sup> Fe, <sup>109</sup> Cd, <sup>131</sup> I, <sup>129</sup> I, <sup>144</sup> Ce, <sup>198</sup> Au, <sup>241</sup> Pu, and others <sup>(a)</sup>	10	60,000	300
Group 4 <sup>(f)</sup> Other Beta-gamma emitters: <sup>3</sup> H, <sup>14</sup> C, <sup>32</sup> P, <sup>35</sup> S, <sup>45</sup> Ca, <sup>51</sup> Cr, <sup>55</sup> Fe, <sup>63</sup> Ni, <sup>89</sup> Sr, <sup>99</sup> Tc, <sup>111</sup> In, <sup>125</sup> I, <sup>147</sup> Pm, and others <sup>(a)</sup>	100	600,000	3,000

- (a) To determine the specific group for radionuclides not shown, a comparison of the effective dose factors, by exposure pathway, listed in Table A.1 of NCRP Report No. 1231 for radionuclides in question and the radionuclides in the general groups above shall be performed and a determination of the proper group made, based on similarity of the factors.
- (b) Rounded to one significant figure
- (c) The screening levels shown are used for either surface activity concentration (in units of Bq/cm<sup>2</sup>) or volume activity concentration (in units of Bq/g). These groupings were

- determined based on the similarity of the scenario modeling results, as described in Annex B.
- (d) For decay chains, the screening levels represent the total activity (i.e., the activity of the parent plus the activity of all progeny) present.
- (e) Where the natural uranium activity equals 48.9% from <sup>238</sup>U, plus 48.9% from <sup>234</sup>U, plus 2.25% from <sup>235</sup>U.
- (f) Vehicles and equipment contamination levels exceeding these values will be decontaminated. Pursuant to ALARA, readily removable contamination will be reduced to levels not to exceed 20% of these values.

Radionuclides were assigned to groups that were protective at 10 uSv/yr (i.e., 1.0 mrem/yr) and were limited to 4 groups for ease of application, as discussed in Annex B.

NOTE: Because of the relatively high Th-230 concentrations in soils at HISS relative to other isotopes, the limits for Th-230 will apply to this removal action.

## 1.21.1 Equipment Decontamination Facilities

A vehicle/equipment decontamination station shall be provided for decontaminating vehicles and equipment. The decontamination station shall be consistent with the SSHP and labeled appropriately. The pad shall be constructed to capture decontamination water, including overspray, and shall allow for collection and removal of the decontamination water using sumps, dikes and ditches as required. Equipment within the controlled area shall be decontaminated before maintenance is performed and before leaving the site.

#### 1.21.2 Procedures

Procedures for equipment decontamination shall be developed and utilized to prevent the spread of contamination. These procedures shall address disposal of contaminated products and spent materials used on the site, including containers, etc. The Contractor shall submit to the Contracting Officer (or the designated representative) for approval a procedure detailing the steps to take to ensure fluids and oils from potentially contaminated removal equipment are recyclable (i.e., not considered radiologically contaminated) to prevent managing as a "waste oil" under State of Missouri regulation, 10 CSR25-11.279. Construction material shall be handled in such a way as to minimize the potential for contaminants being spread and/or carried offsite. Prior to exiting a controlled area, vehicles and equipment shall be monitored for radiological contamination to ensure the adequacy of decontamination.

#### 1.22 EMERGENCY EQUIPMENT AND FIRST AID REQUIREMENTS

The SSHP shall describe the emergency and first aid equipment to be available onsite. The following items, as a minimum, shall be maintained onsite and available for immediate use:

- a. First aid equipment and supplies approved by the consulting physician and in accordance with EM 385-1-1 Section 3 and 29 CFR 1910.151. An example of the minimum requirements of a generic first aid kit is described in ANSI Z308.1-1978.
- b. Emergency eyewashes which comply with ANSI Z358.1.
- c. Fire extinguishers shall be provided at site facilities as specified in EM 385-1-1 Table 9-1 "Fire Extinguisher Distribution" and in all vehicles and at any other site locations where flammable or combustible materials present a fire risk. All fire protection requirements of EM 385-1-1 and 29 CFR 1926 must be met.

# 1.22.1 EMERGENCY EQUIPMENT AND FIRST AID KIT INSPECTIONS

The Contractor will inspect all emergency equipment and first aid kits in accordance with the requirements of EM 385-1-1, 29 CFR 1926, and manufacturer's instructions.

#### 1.22.2 EMERGENCY EQUIPMENT TRAINING

The Contractor will train all personnel responsible for the handling and use of emergency equipment and first aid kits in accordance with the requirements of EM 385-1-1, 29 CFR 1926, and manufacturer's instructions.

#### 1.23 EMERGENCY RESPONSE AND CONTINGENCY PROCEDURES.

An Emergency Response Plan that meets the requirements of EM 385-1-1 Section 28 J, "Emergency Response" and 29 CFR 1926.65(I) shall be developed and implemented as a section of the SSHP. In the event of any emergency associated with remedial action, the Contractor shall, without delay, alert all onsite employees that there is an emergency situation; take action to remove or otherwise minimize the cause of the emergency; alert the Contracting Officer (or the designated representative); and institute measures necessary to prevent repetition of the conditions or actions leading to, or resulting in, the emergency. The plan shall be reviewed regularly as part of the overall training program for site operations. The plan shall be reviewed periodically and revised as necessary to reflect new or changing site conditions or information. Copies of the accepted SSHP and revisions shall be provided to the affected local emergency response agencies. The following elements, as a minimum, shall be addressed in the plan:

- a. Pre-emergency planning. The local emergency response agencies shall be contacted and met with during preparation of the Emergency Response Plan. Agencies to be contacted include local fire, police, and rescue authorities with jurisdiction and nearby medical facilities that may be utilized for emergency treatment of injured personnel. The agencies shall be notified of upcoming site activities and potential emergency situations. The response agencies' capabilities shall be ascertained and written response commitments obtained. The Contractor shall ensure the Emergency Response Plan for the site is compatible and integrated with the disaster, fire and/or emergency response plans of local, state, and Federal agencies.
- b. Personnel roles, lines of authority, communications for emergencies.
- c. Emergency recognition and prevention.
- d. Site topography, layout, and prevailing weather conditions.
- e. Criteria and procedures for site evacuation (emergency alerting procedures, employee alarm system, emergency PPE and equipment, safe distances, places of refuge, evacuation routes, assembly areas, site security and control).
- f. Specific procedures for decontamination and medical treatment of injured personnel.
- g. Route maps to nearest pre-notified medical facility. Site-support vehicles shall be equipped with maps. At the beginning of project operations, drivers of the support vehicles shall become familiar with the emergency route and the travel time required.
- h. Emergency alerting and response procedures including posted instructions and a list of names and telephone numbers of emergency contacts (physician, nearby medical facility, fire and police departments, ambulance service, Federal, state, and local environmental agencies; as well as Safety and Health Manager, the Site Superintendent, the Contracting Officer and/or their alternates).

- i. Criteria for initiating community alert program, contacts, and responsibilities.
- j. Procedures for reporting incidents to appropriate government agencies. In the event that an incident such as an explosion or fire, or a spill or release of toxic materials occurs during the course of the project, the appropriate government agencies shall be immediately notified. In addition, the Contracting Officer (or the designated representative) shall be verbally notified immediately and receive a written notification within 24 hours. The report shall include the following items:
  - (1) Name, organization, telephone number, and location of the Contractor.
  - (2) Name and title of the person(s) reporting.
  - (3) Date and time of the incident.
  - (4) Location of the incident, i.e., site location, facility name.
  - (5) Brief summary of the incident giving pertinent details including type of operation ongoing at the time of the incident.
  - (6) Cause of the incident, if known.
  - (7) Casualties (fatalities, disabling injuries).
  - (8) Details of any existing chemical hazard or contamination.
  - (9) Estimated property damage, if applicable.
  - (10) Nature of damage, effect on contract schedule.
  - (11) Action taken to ensure safety and security.
  - (12) Other damage or injuries sustained, public or private.
  - (13) Railcar number and concentrations as shown on the manifest document.
- k. Procedures for critique of emergency responses and follow-up.

# 1.24 CERTIFICATE OF WORKER/VISITOR ACKNOWLEDGEMENT

A copy of a Contractor-generated certificate of worker/visitor acknowledgement shall be completed and submitted for each employee and visitor allowed to enter restricted areas, following the example certificate at the end of this section.

## 1.25 INSPECTIONS

The SSHO shall perform daily inspections of the jobsite and the work in progress to ensure compliance with EM 385-1-1, the Safety and Health Program, the SSHP, RPP, and other occupational health and safety requirements of the contract, and to determine the effectiveness of the SSHP. Procedures for correcting deficiencies (including actions, timetable and responsibilities) shall be described in the SSHP. Follow-up inspections to ensure correction of deficiencies shall be conducted and documented. Daily safety inspection logs shall be used to document the inspections, noting safety and health deficiencies, deficiencies in the effectiveness of the SSHP and RPP, and corrective actions taken. The SSHO's Daily Inspection Logs shall be attached to and submitted with the Daily Quality Control reports. Each entry shall include the following: date, work area checked, employees present in work area, PPE and work equipment

being used in each area, special safety and health issues and notes, and signature of preparer. In the event of an accident, the Contracting Officer (or the designated representative) shall be notified according to EM 385-1-1. Within 2 working days of any reportable accident, an Accident Report shall be completed on ENG Form 3394 and submitted.

#### 1.26 SAFETY AND HEALTH PHASE-OUT REPORT

A Safety and Health Phase-Out Report shall be submitted within 10 working days following completion of the work, prior to final acceptance of the work. The following minimum information shall be included:

- a. Summary of the overall performance of safety and health (accidents or incidents including near misses, unusual events, lessons learned, etc.).
- b. Final decontamination documentation including procedures and techniques used to decontaminate equipment, vehicles, and onsite facilities.
- c. Summary of exposure monitoring and air sampling results accomplished during the project and explanation of any elevated readings.
- d. Resolution of major safety and health issues such as upgrading PPE, hazard control changes made to accommodate added tasks, discovery of unanticipated hazards, etc.
- e. Signatures of Safety and Health Manager and SSHO.

## PART 2 PRODUCTS

(Not Applicable)

#### PART 3 EXECUTION

(Not Applicable)

**END OF SECTION 01351** 

## **EXAMPLE CERTIFICATE OF WORKER/VISITOR ACKNOWLEDGMENT**

PROJECT NAME PROJECT ADDRESS CONTRACTOR'S NAME [EMPLOYEE'S][VISITOR'S] NAME CONTRACT NO.

The contract for the above project requires the following: that you be provided with and complete formal and site-specific training; that you be supplied with proper personal protective equipment including respirators; that you be trained in its use; and that you receive a medical examination to evaluate your physical capacity to perform your assigned work tasks, under the environmental conditions expected, while wearing the required personal protective equipment. These things are to be done at no cost to you. By signing this certification, you are acknowledging that your employer has met these obligations to you.

I HAVE READ, UNDERSTAND AND AGREE TO FOLLOW THE SITE SAFETY AND HEALTH PLAN FOR THIS SITE.

Name		Date
	IG: I have completed the follow	ring formal training courses that meet OSHA's
	Date Completed	
40 hour:		
8 hour supervisory:	·	
8 hour refresher:		
	• • • • • • • • • • • • • • • • • • •	d and have completed the site-specific training ealth Officer conducted the training.
Contractor's] [my liproper work proced	Employer's] Respiratory Protect dures and use and limitations	ined in accordance with the criteria in [the tion program. I have been trained in the of the respirator(s) I will wear. I have been
cleaning, and main tested in accordant and have received been taught how to	tenance, and storage of the rescending the control of the Control	n trained in the proper selection, fit, use, care, spirator(s) that I will wear. I have been fit-ractor's] [my employer's] Respiratory Program assigned my individual respirator.] I have negative pressure fit-check upon donning

MEDICAL EXAMINATION: I have had a medical examination within the last twelve months, which was paid for by my employer. The examination included: health history, pulmonary function tests and may have included an evaluation of a chest x-ray. A physician made determination regarding my physical capacity to perform work tasks on the project while wearing protective equipment including a respirator. I was personally provided a copy and informed of the results of that examination. My employer's industrial hygienist evaluated the medical certification provided by the physician and checked the appropriate blank below. The physician determined that there:

Were no limitations to performing the required work tasks;
Were identified physical limitations to performing the required work tasks.
Date medical exam completed
[Employee's][Visitor's] Signature
Date
Printed Name
Social Security Number
Contractor's Site Safety and Health Officer Signature
Date
Printed Name
Social Security Number

## **SECTION 01440**

### CONTRACTOR QUALITY CONTROL

#### PART 1 GENERAL

#### 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

## American Society for Testing and Materials (ASTM)

ASTM D 3740 (1996) Minimum Requirements for Agencies Engaged in the Testing

and/or Inspection of Soil and Rock as Used in Engineering

Design and Construction

ASTM E 329 (1995b) Agencies Engaged in the Testing and/or Inspection of Materials

Used in Construction

#### 1.2 PAYMENT

Separate payment will not be made for providing and maintaining an effective Quality Control program, and all costs associated therewith shall be included in the applicable unit prices or lump-sum prices contained in the Bidding Schedule.

## 1.3 SUBMITTALS

Government approval is required for all submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 -SUBMITTAL PROCEDURES:

#### SD-09 REPORTS

**Quality Control Plan; GA** – A Quality Control plan shall be submitted to the Contracting Officer (or the designated representative) as described in Section 3.2 below.

#### PART 2 PRODUCTS

(Not Applicable)

## PART 3 EXECUTION

# 3.1 GENERAL

The Contractor is responsible for quality control and shall establish and maintain an effective quality control system in compliance with the Contract Clause entitled "Inspection of Construction." The quality control system shall consist of plans, procedures, and organization necessary to produce an end product that complies with the contract requirements. The system shall cover all construction operations, both on-site and off-site, and shall be keyed to the proposed construction sequence. The project superintendent will be held responsible for the quality of work on the job and is subject to removal by the Contracting Officer (or the designated representative) for non-compliance with quality requirements specified in this contract. The

project superintendent in this context shall mean the individual with the responsibility for the overall management of the project including quality and production.

### 3.2 QUALITY CONTROL PLAN

The Contractor shall furnish for review by the Government, not later than 15 days after receipt of notice to proceed, the Contractor Quality Control (CQC) Plan proposed to implement the requirements of the Contract Clause titled "Inspection of Construction." The plan shall identify personnel, procedures, control, instructions, tests, records, and forms to be used. The Government will consider an interim plan for the first 45 days of operation. Construction will be permitted to begin only after acceptance of the CQC Plan or acceptance of an interim plan applicable to the particular feature of work to be started. Work outside of the features of work included in an accepted interim plan will not be permitted to begin until acceptance of a CQC Plan or another interim plan containing the additional features of work to be started.

#### 3.2.1 Content of the CQC Plan

The CQC plan shall include, as a minimum, the following to cover all construction operations, both on-site and off-site, including work by subcontractors, fabricators, suppliers, and purchasing agents:

- a. A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the CQC staff shall implement the three phase control system for all aspects of the work specified. The staff shall include a CQC system manager who shall report to the project superintendent. Project superintendent in this context shall mean the individual with responsibility for the overall management of the project including quality and production.
- b. The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a CQC function.
- c. A copy of the letter to the CQC System Manager signed by an authorized official of the firm, which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the CQC System Manager, including authority to stop work which is not in compliance with the contract. The CQC System Manager shall issue letters of direction to all other various quality control representatives outlining duties, authorities, and responsibilities. Copies of these letters shall also be furnished to the Government.
- d. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, off-site fabricators, suppliers, and purchasing agents. These procedures shall be in accordance with SECTION 01330 SUBMITTAL PROCEDURES.
- e. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities will be approved by the Contracting Officer or the designated representative.)
- f. Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including documentation.
- g. Procedures for tracking construction deficiencies from identification through acceptable corrective action. These procedures shall establish verification that identified deficiencies have been corrected.
- h. Reporting procedures, including proposed reporting formats.

i. A list of the definable features of work. A definable feature of work is a task that is separate and distinct from other tasks and has separate control requirements. It could be identified by different trades or disciplines, or it could be work by the same trade in a different environment. Although each section of the specifications may generally be considered as a definable feature of work, there is frequently more than one definable feature under a particular section. This list shall be agreed upon during the coordination meeting.

## 3.2.2 Acceptance of Plan

Acceptance of the Contractor's plan is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction. The Government reserves the right to require the Contractor to make changes in the CQC plan and operations including removal of personnel, as necessary, to obtain the quality specified.

## 3.2.3 Notification of Changes

After acceptance of the CQC plan, the Contractor shall notify the Contracting Officer (or the designated representative) in writing a minimum of seven calendar days prior to any proposed change. Proposed changes are subject to acceptance by the Contracting Officer (or the designated representative).

## 3.3 COORDINATION MEETING

After the Preconstruction Conference, before start of construction, and prior to acceptance by the Government of the CQC Plan, the Contractor shall meet with the Contracting Officer or Authorized Representative and discuss the Contractor's quality control system. During the meeting, a mutual understanding of the system details shall be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both on-site and off-site work, and the interrelationship of Contractor's Management and control with the Government's Quality Assurance. Minutes of the meeting shall be prepared by the Government and signed by both the Contractor and the Contracting Officer (or the designated representative). The minutes shall become a part of the contract file. There may be occasions when subsequent conferences will be called by either party to reconfirm mutual understandings and/or address deficiencies in the CQC system or procedures that may require corrective action by the Contractor.

#### 3.4 QUALITY CONTROL ORGANIZATION

The Contractor shall identify an individual within its organization at the worksite who shall be responsible for overall management of CQC and have the authority to act in all CQC matters for the Contractor. This CQC System Manager shall be on the site at all times during construction and shall be employed by the Contractor. The CQC System Manager shall have no other duties. This CQC System Manager shall be USACE certified and shall be approved by the Contracting Officer (or the designated representative). To become "certified" the manager must have completed the course entitled "Construction Quality Management for Contractors". This course is offered quarterly at the St. Louis Corps of Engineers District Office. An alternate for the CQC System Manager shall be identified in the plan to serve in the event of the System Manager's absence. Period of absence may not exceed one (1) week at any one time, and not more than ten (10) workdays during a calendar year. The requirements for the alternate will be the same as for the designated CQC Manager.

## 3.4.1 CQC Organizational Staffing

The Contractor shall provide a CQC staff that shall be at the worksite at all times during progress, with complete authority to take any action necessary to ensure compliance with the contract. The actual strength of the CQC staff may vary during any specific work period to cover the needs of the work period. When necessary for a proper CQC organization, the Contractor shall add additional staff at no cost to the Government. All CQC staff members shall be subject to acceptance by the Contracting Officer (or the designated representative).

## 3.4.2 Organizational Changes

The Contractor shall maintain the CQC staff at full strength at all times. When it is necessary to make changes to the CQC staff, the Contractor shall revise the CQC Plan to reflect the changes and submit the changes to the Contracting Officer (or the designated representative) for acceptance.

#### 3.5 SUBMITTALS

Submittals shall be made as specified in SECTION 01330 - SUBMITTAL PROCEDURES. The CQC organization shall be responsible for certifying that all submittals and deliverables are in compliance with the contract requirements.

## 3.6 CONTROL

Contractor Quality Control is the means by which the Contractor ensures that the construction, to include that of subcontractors and suppliers, complies with the requirements of this contract. At least three phases of control shall be conducted by the CQC System Manager for all definable features of work, as follows:

## 3.6.1 Preparatory Phase

This phase shall be performed prior to beginning work on each definable feature of work, after all required plans/documents/materials are approved/accepted, and after copies are at the work site. This phase shall include:

- a. A review of each paragraph of applicable specifications, reference codes, and standards. A copy of those sections of referenced codes and standards applicable to that portion of the work to be accomplished in the field shall be made available by the Contractor at the preparatory inspection. These copies shall be maintained in the field and available for use by the Government personnel until final acceptance of the work.
- b. A review of the contract drawings.
- A check to assure that all materials and/or equipment have been tested, submitted, and approved.
- A check to assure that provisions have been made to provide required control inspection and testing.
- e. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the contract.
- f. A physical examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.

- A review of the appropriate activity hazard analysis to assure safety requirements are met.
- h. Discussion of procedures for constructing the work including repetitive deficiencies.

  Document construction tolerances and workmanship standards for that phase of work.
- i. A check to ensure that the portion of the CQC Plan for the work to be performed has been accepted by the Contracting Officer (or the designated representative).
- j. The Government shall be notified at least 24 hours in advance of beginning any of the required action of the preparatory phase. This phase shall include a meeting conducted by the CQC System Manager and attended by the superintendent, other CQC personnel (as applicable), and the foreman responsible for the definable feature. The results of the preparatory phase actions shall be documented by separate minutes prepared by the CQC System Manager and attached to the daily CQC report. The Contractor shall instruct applicable workers as to the acceptable level of workmanship required in order to meet contract specifications.

### 3.6.2 Initial Phase

This phase shall be accomplished at the beginning of a definable feature of work. The following shall be accomplished:

- a. A check of preliminary work to ensure that it is in compliance with contract requirements. Review minutes of the preparatory meeting.
- b. Verification of full contract compliance. Verify required control inspection and testing.
- Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with sample panels is appropriate.
- d. Resolve all differences.
- e. Check safety to include compliance with and upgrading of the safety plan and activity hazard analysis. Review the activity analysis with each worker.
- f. The Government shall be notified at least (24) hours in advance of beginning the initial phase. Separate minutes of this phase shall be prepared by the CQC System Manager and attached to the daily CQC report. Exact location of initial phase shall be indicated for future reference and comparison with follow-up phases.
- g. The initial phase should be repeated for each new crew to work on-site, or any time acceptable specified quality standards are not being met.

## 3.6.3 Follow-up Phase

Daily checks shall be performed to assure continuing compliance with contract requirements, including control testing, until completion of the particular feature of work. The checks shall be made a matter of record in the CQC documentation. Final follow-up checks shall be conducted and all deficiencies corrected prior to the start of additional features of work that may be affected by the deficient work. The Contractor shall not build upon or conceal non-conforming work.

## 3.6.4 Additional Preparatory and Initial Phases

As determined by the Government, additional preparatory and initial phases may be conducted on the same definable features of work if the quality of on-going work is unacceptable; if there are

changes in the applicable CQC staff, on-site production supervision or work crew; if work on a definable feature is resumed after a substantial period of inactivity; or if other problems develop.

### 3.7 TESTS

### 3.7.1 Testing Procedure

The Contractor shall perform specified or required tests to verify that control measures are adequate to provide a product that conforms to contract requirements. Testing includes operation and/or acceptance tests when specified. The Contractor shall procure the services of a Corps of Engineers approved testing laboratory or establish an approved testing laboratory at the project site. The Contractor shall perform the following activities and record and provide the following data:

- a. Verify that testing procedures comply with contract requirements.
- b. Verify that facilities and testing equipment are available and comply with testing standards.
- c. Check test instrument calibration data against certified standards.
- d. Verify that recording forms and test identification control number system, including all of the test documentation requirements, have been prepared.
- e. Results of all tests taken, both passing and failing tests, shall be recorded on the CQC report for the date taken. Specification paragraph reference, location where tests were taken, and the sequential control number identifying the test shall be given. If approved by the Contracting Officer (or the designated representative), actual test reports may be submitted later with a reference to the test number and date taken. An information copy of tests performed by an off-site or commercial test facility shall be provided directly to the Contracting Officer (or the designated representative). Failure to submit timely test reports as stated may result in nonpayment for related work performed and disapproval of the test facility for this contract.

## 3.7.2 Testing Laboratories

## 3.7.2.1 Capability Check

The Government reserves the right to check laboratory equipment in the proposed laboratory for compliance with the standards set forth in the contract specifications and to check the laboratory technician's testing procedures and techniques. Laboratories utilized for testing soils, concrete, asphalt, and steel shall meet criteria detailed in ASTM D 3740 and ASTM E 329.

## 3.7.2.2 Capability Recheck

If the selected laboratory fails the capability check, the Contractor will be assessed any charges incurred to reimburse the Government for each succeeding recheck of the laboratory or the checking of a subsequently selected laboratory. Such costs will be deducted from the contract amount due the Contractor.

#### 3.7.3 On-Site Laboratory

The Government reserves the right to utilize the Contractor's control testing laboratory and equipment to make assurance tests and to check the Contractor's testing procedures, techniques, and test results at no additional cost to the Government.

#### 3.8 COMPLETION INSPECTION

At the completion of all work or any increment thereof established by a completion time stated in the Special Clause entitled "Commencement, Prosecution, and Completion of Work," or stated elsewhere in the specifications, the CQC System Manager shall conduct an inspection of the work and develop a "punch list" of items which do not conform to the approved drawings and specifications. Such a list of deficiencies shall be included in the CQC documentation, as required by paragraph DOCUMENTATION below, and shall include the estimated date by which the deficiencies will be corrected. The CQC System Manager or staff shall make a second inspection to ascertain that all deficiencies have been corrected and so notify the Government. These inspections and any deficiency corrections required by this paragraph shall be accomplished within the time stated for completion of the entire work or any particular increment thereof if the project is divided into increments by separate completion dates.

#### 3.9 DOCUMENTATION

The Contractor shall maintain current records providing factual evidence that required quality control activities and/or tests have been performed. These records shall include the work of subcontractors and suppliers and shall be on an acceptable form that includes, as a minimum, the following information:

- a. Contractor/subcontractor and their area of responsibility.
- b. Operating plant/equipment with hours worked, idle, or down for repair.
- c. Work performed each day, giving location, description, and by whom. When Network Analysis (NAS) is used, identify each phase of work performed each day by NAS activity number.
- Test and/or control activities performed with results and references to specifications/drawings requirements. The control phase should be identified (Preparatory, Initial, and Follow-up). List deficiencies noted along with corrective action.
- e. Quantity of materials received at the site with statement as to acceptability, storage, and reference to specifications/drawings requirements.
- f. Submittals reviewed, with contract reference, by whom, and action taken.
- g. Off-site surveillance activities, including actions taken.
- h. Job safety evaluations stating what was checked, results, and instructions or corrective actions.
- i. Instructions given/received and conflicts in plans and/or specifications.
- j. Contractor's verification statement.

These records shall indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered. These records shall cover both conforming and deficient features and shall include a statement that equipment and materials incorporated in the work and workmanship comply with the contract. The original and one copy of these records in report form shall be completed and delivered to the government by 12 noon each day (e.g., Monday's report is due Tuesday at noon). As a minimum, one report shall be prepared and submitted for every seven days of no work and on the last day of a no work period. All calendar days shall be accounted for throughout the life of the contract. The first report following a day of no work shall be for that day only. Reports shall be signed and dated by

the CQC System Manager. The report from the CQC System Manager shall include copies of test reports and copies of reports prepared by all subordinate quality control personnel.

#### 3.10 NOTIFICATION OF NONCOMPLIANCE

The Contracting Officer (or the designated representative) will notify the Contractor of any detected noncompliance with the foregoing requirements. The Contractor shall take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the worksite, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer (or the designated representative) may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

#### 3.11 QUALITY ASSURANCE COMMENTS

During the course of the contract, the Contractor will receive various Quality Assurance comments from the Government that will reflect corrections needed to Contractor activities or reflect outstanding or future items needing the attention of the Contractor. The Contractor shall acknowledge receipt of these comments by specific number reference on its Daily CQC Report, and shall also reflect on its Daily CQC Report when these items are specifically completed or corrected to permit Government verification.

## 3.12 CONTRACTOR'S SCHEDULING SYSTEM

The Contractor's schedule system shall include, as specific and separate activities, all Preparatory Phase Meetings (inspections), all O&M Manuals and all Test Plans of Electrical and Mechanical Equipment or Systems that require validation testing or instructions to Government representatives.

**END OF SECTION 01440** 

## **SECTION 01500**

## **TEMPORARY CONSTRUCTION ACTIVITIES**

#### **PART 1 GENERAL**

#### 1.1 REFERENCES

American Society For Testing And Materials (ASTM)

ASTM D 4873 (1995) Identification, Storage, and Handling of Geotextiles

Engineering Manuals (EM)

EM 385-1-1 (1996) U.S.A.C.E Safety and Health Requirements Manual

Code Of Federal Regulations (CFR)

10 CFR 20 Standards for Protection Against Radiation

#### 1.2 GENERAL REQUIREMENTS

#### 1.2.1 Site Plan

The Contractor shall submit to the Contracting Officer (or the designated representative) for approval, a site plan which proposes temporary construction facilities, decontamination areas, and laydown/storage areas. The Contractor shall maintain all temporary construction facilities. Avenues of ingress/egress shall be as shown on the Contract Drawings. Any areas, which may require gravel stabilization to facilitate work or prevent the spread of contamination, shall be identified on the site plan prepared by the Contractor. The Contractor shall also indicate if the use of a supplemental or other staging area is desired.

## 1.2.2 Identification of Employees

The Contractor shall be responsible for furnishing to each employee, and for requiring each employee engaged on the work to display, identification as approved and directed by the Contracting Officer (or the designated representative). Prescribed identification shall immediately be delivered to the Contracting Officer (or the designated representative) for cancellation upon release of any employee. When required, the Contractor and subcontractor personnel shall wear identifying markings on hard hats clearly identifying the company for whom the employee works.

## 1.2.3 Employee Parking

Contractor employees shall park privately owned vehicles (POVs) in the area designated on the Contract Drawings. Contractor employee parking shall not interfere with existing and established parking requirements.

### 1.2.4 SITE MOWING

The Contractor shall be responsible for mowing the existing turf within the Contract Limits as shown on the drawings.

## 1.3 SUBMITTALS

Government approval is required for all submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 - SUBMITTAL PROCEDURES:

### SD-04 Drawings

**Site Plan**; **GA** - The Contractor shall submit a Site Plan that identifies how the Contractor will utilize the site such as showing the location of decontamination areas, trailer location, parking, laydown/storage areas, etc.

## **SD-13 Certificates**

*Gravel*; FIO - A minimum of 5 days prior to scheduled use, the Contractor shall submit a sample for determination of the quality of the material.

#### 1.4 AVAILABILITY AND USE OF UTILITY SERVICES

#### 1.4.1 Sanitation

Within the construction area, the Contractor shall provide and maintain, including all costs, minimum field-type sanitary facilities approved by the Contracting Officer (or the designated representative).

## 1.4.2 Telephone

The Contractor shall make arrangements and pay all costs for telephone facilities desired unless specified otherwise by the Contracting Officer (or the designated representative) at the time of contract award.

## 1.4.3 Utility Service

Utility service exists on the north end of the site in the area designated for Contractor POV parking. The Contractor shall be permitted to utilize this service at the discretion of the Contracting Officer (or the designated representative). If the Contracting Officer (or the designated representative) does not permit the use of existing utility services, then the Contractor, at its expense and in a manner satisfactory to the Contracting Officer (or the designated representative), shall provide, maintain, and operate necessary temporary generating equipment or temporary power drops from available utilities. Electric power for pumps or other equipment on site shall be provided by the Contractor using portable generators. It shall be the responsibility of the Contractor to ensure the pumps for storm water provide power on a 24-hour basis.

# 1.5 BULLETIN BOARD, PROJECT SIGN, AND PROJECT SAFETY SIGN

## 1.5.1 Bulletin Board

Immediately upon beginning of work, the Contractor shall provide a weatherproof glass-covered bulletin board not less than 36 by 48 inches in size for displaying the Equal Employment Opportunity poster, a copy of the wage decision contained in the contract, Wage Rate Information poster, and other information approved by the Contracting Officer (or the designated representative). The bulletin board shall be located at the project site in a conspicuous place easily accessible to all employees, as approved by the Contracting Officer (or the designated representative). Legible copies of the aforementioned data shall be displayed until work is

completed. Upon completion of work the bulletin board shall be removed by and remain the property of the Contractor.

## 1.5.2 Project and Safety Signs

The requirements for the signs, their content, and location shall be provided by the Contractor with the approval of the Contracting Officer (or the designated representative). The Contractor shall erect the signs within 15 days after receipt of the notice to proceed and prior to commencing waste pile removal actions. The data required by the safety sign shall be corrected daily, with light colored metallic or non-metallic numerals. Upon completion of the project, the signs shall be removed from the site. The Contractor shall maintain existing signs except when temporary removal is necessary to perform a task. The signs must be immediately replaced upon completion of that task.

#### 1.6 PROTECTION AND MAINTENANCE OF TRAFFIC

#### 1.6.1 Haul Road

The Contractor shall construct and maintain access and haul roads necessary for proper execution of the work under this contract. Haul roads shall be constructed with suitable grades and widths. The Contractor shall place a geotextile over the existing ground surface prior to placing the gravel of the haul roads for stability and to minimize the spread of contamination. The Contractor shall provide necessary lighting, signs, barricades, and distinctive markings for the safe movement of traffic. The method of dust control shall be adequate to ensure safe operation at all times and to prevent airborne occupational exposure in excess of the limits contained in 10 CFR 20, portions of EM 385-1-1 (specifically Section 0.6.E), Section 01130 – ENVIRONMENTAL PROTECTION paragraph 3.4.1, and Section 01351 – SAFETY, HEALTH AND EMERGENCY RESPONSE paragraph 1.9.3. Location, grade, width, and alignment of construction and hauling roads shall be subject to approval by the Contracting Officer (or the designated representative). Upon completion of the work, only haul roads designated by the Contracting Officer (or the designated representative) shall be removed, otherwise, haul roads shall be left in place.

### 1.6.2 Barricades

The Contractor shall limit site access to only authorized personnel due to existing site contamination. Barricades shall be required whenever safe public access to paved areas such as roads, parking areas or sidewalks is prevented by construction activities or as otherwise necessary to ensure the safety of both pedestrian and vehicular traffic. Barricades shall be securely placed, clearly visible with adequate illumination to provide sufficient visual warning of the hazard during both day and night. The Contractor shall maintain existing barricades except when temporary removal is necessary to perform a task. The barricades must be replaced immediately upon completion of that task. The Contractor shall be responsible for maintaining site security at all times including non-working hours.

## 1.7 CONTRACTOR'S TEMPORARY FACILITIES

# 1.7.1 Administrative Field Offices

The Contractor shall be responsible for providing field offices.

## 1.7.2 Storage Area

Trailers, materials, or equipment shall not be placed or stored outside the equipment storage/laydown area unless such trailers, materials, or equipment are assigned a separate and distinct storage area by the Contracting Officer (or the designated representative) away from the vicinity of the construction site but within the contract limits. Materials shall not be stockpiled

outside the equipment storage/laydown area in preparation for the next day's work. Mobile equipment, such as tractors, wheeled lifting equipment, cranes, trucks, and like equipment, shall be parked within the equipment storage/laydown area at the end of each work day.

## 1.7.3 Supplemental Storage Area

Upon Contractor's request, the Contracting Officer (or the designated representative) will designate another or supplemental area for the Contractor's use and storage of trailers, equipment, and materials. The Contractor shall be responsible for cleanliness and orderliness of the area used and for the security of any material or equipment stored in this area. The Government will not provide utilities to this area.

## 1.7.4 Security Provisions

The Contractor shall be responsible for the security of its own equipment; in addition, the Contractor shall notify the appropriate law enforcement agency requesting periodic security checks of the construction site.

### 1.8 SITE COMMUNICATION

The Contractor, at its expense and in a manner satisfactory to the Contracting Officer (or the designated representative), shall supply communication devices for site communication. The devices shall be made available for use by Government personnel.

#### 1.9 PROJECT FENCING

The Contractor shall be responsible for the replacement of any existing fencing that is damaged or removed during the Work.

## 1.10 CLEANUP

Construction debris, waste materials, packaging material and the like shall be removed from the work site daily and disposed of according to the approved Work Plan. Any dirt or mud that is tracked onto paved or surfaced roadways shall be cleaned away. This will be verified by radiological surveys.

## 1.11 RESTORATION OF STORAGE AREA

Upon completion of the project, the designated equipment storage/laydown area shall be restored to its condition prior to the start of the Work. The area shall be barricaded or roped off to limit access upon completion of the Work. Signs shall be conspicuously placed designating the area as contaminated. All materials and equipment shall be removed from the equipment storage/laydown area at the completion of the project. Gravel used to traverse grassed areas shall be removed and the area restored to its original condition, including sod placement as described in Section 02935 - SOD and as designated by the Contracting Officer (or the designated representative).

#### PART 2 PRODUCTS

## 2.1 COMPONENTS FOR HAUL ROAD STABILIZATION

#### 2.1.1 Geotextile

Geotextile shall be used for underlayment of the Haul Road and shall comply with the requirements of Section 02272 – SEPARATION/FILTRATION GEOTEXTILE.

# 2.1.2 Identification Storage and Handling

Geotextile shall be identified, stored and handled in accordance with ASTM D 4873.

## PART 3 EXECUTION

## 3.1 Haul Road Inspection

The Haul Road shall be considered an uncontaminated area. The Contractor shall inspect the Haul Road for spills at the end of each day and remove any debris or soil. The Contractor shall conduct a radiological survey of the Haul Road daily for the first 2 weeks of operation and weekly thereafter or as directed by the Contracting Officer (or the designated representative). A radiological survey of the equipment and tires on the piece of hauling equipment shall be conducted on each trip the first week of operation and once every 10 trips thereafter to determine if the Haul Road is being contaminated.

#### **END OF SECTION 01500**

## **SECTION 01565**

### STORM WATER POLLUTION PREVENTION MEASURES

#### PART 1 GENERAL

#### 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

Code of Federal Regulations (CFR) 40 CFR 122 to 125

Code of State Regulations (CSR) 10 CSR 20-6.200

American Society for Testing and Materials (ASTM)

ASTM D 4873 (1995) Identification, Storage, and Handling of Geotextiles

**USACE Engineering Pamphlet (EP)** 

USACE EP 1110-1-16 (1997) Engineering and Design Handbook for the Preparation

of Storm Water Pollution Prevention Plans for Construction

Activities

#### 1.2 GENERAL

The Contractor shall implement the storm water pollution prevention measures specified in this section in a manner which will meet the requirements of Section 01130-ENVIRONMENTAL PROTECTION, and the requirements of the existing National Pollutant Discharge Elimination System (NPDES) permit for the site. The existing NPDES permit is under renewal and the Contractor will need to comply with any revisions to the permit as well.

Management of stormwater discharge from industrial and construction activities in Missouri is regulated under Missouri Department of Natural Resources (MDNR) regulations promulgated at 10 CSR 20-6,200 (Storm Water Regulations) and 10 CSR 20-6,010 (Construction and Operating Permits). These regulations are consistent and compatible with the corresponding federal Clean Water Act regulations promulgated at 40 CFR 122 to 125, inclusive, Missouri has full general permitting authority to administer stormwater permits. The MDNR has issued an NPDES permit for HISS (State Operating Permit number MO-0111252) for the discharge of untreated stormwater run-off from three outfalls. Outfall 001 is located at the north end of the site and discharges to Coldwater Creek via a stormwater culvert located along Latty Ave. Outfall 002 is located at the southwest end of the site and discharges to a Coldwater Creek tributary stream. Outfall 003 is located at the southeast end of the site and also discharges to a Coldwater Creek tributary stream. Monthly monitoring for total settleable solids is required at all outfalls when flow occurs. The permit also requires quarterly monitoring at all outfalls for specific conductance, total organic carbon (TOC), total settleable solids, total organic halides (TOX), gross alpha, gross beta, Pb-210, Ra-226, Ra-228, Th-230, Th-232, and isotopic uranium. Quarterly grab sampling for pH, conductivity, daily flow and rainfall is also required. Both VOCs and SVOCs must be quantitated if positive results are obtained for TOX. The only pollutant specifically limited in the discharge from the three outfalls is total settleable solids with maximum daily and monthly average limits of 1.5ml/L/hr and 1.0ml/L/hr, respectively. Again, the NPDES permit is under renewal at this time and the Contractor will be required to comply with any revisions to the permit.

The limits and conditions of the current HISS permit apply to untreated stormwater discharges that result from current site conditions. As such, the current permit limits may not be applicable to stormwater discharges resulting from site conditions expected during removal/remedial activities at HISS. Any expansions or modifications which will result in new or different characteristics must be reported sixty (60) days before the stormwater modification begins [10 CSR 20-6.200(5)(D)E.3].

#### 1.3 SUBMITTALS

Government approval is required for all submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 -SUBMITTAL PROCEDURES:

## SD-09 REPORTS

**Storm Water Pollution Prevention Plan; GA -** A Storm Water Pollution Prevention Plan (SWPPP), as described in Section 01565, Para 3.1, shall be submitted and approved prior to the initiation of any soil disturbance activities. The SWPPP shall be submitted as part of the Environmental Protection Plan contained in Section 01130 – ENVIRONMENTAL PROTECTION.

INSPECTION REPORTS; FIO - INSPECTION REPORTS, AS DESCRIBED IN SECTION 01565, PARA 3.4.3, SHALL BE SUBMITTED TO THE CONTRACTING OFFICER (OR THE DESIGNATED REPRESENTATIVE) WITHIN 24 HOURS OF THE INSPECTION AS A PART OF THE CONTRACTOR'S DAILY CQC REPORT.

#### 1.4 EROSION AND SEDIMENT CONTROLS

The controls and measures required of the Contractor are described below.

## 1.4.1 Stabilization Practices

The stabilization practices to be implemented shall include temporary seeding and erosion control matting. On his daily CQC Report, the Contractor shall record the dates when the major grading activities occur, (e.g., excavation, grading); when construction activities temporarily or permanently cease on a portion of the site; and when stabilization practices are initiated. Except as provided in paragraphs UNSUITABLE CONDITIONS and NO ACTIVITY FOR LESS THAN 21 DAYS, stabilization practices shall be initiated as soon as practicable, but no more than 14 days after construction activities have temporarily or permanently ceased, in any portion of the site.

## 1.4.1.1 Unsuitable Conditions

Where the initiation of stabilization measures by the fourteenth day after construction activity temporarily or permanently ceases is precluded by unsuitable conditions caused by the weather, stabilization practices shall be initiated as soon as practicable after conditions become suitable.

## 1.4.1.2 No Activity for Less Than 21 Days

Where construction activity will resume on a portion of the site within 21 days from when activities ceased (e.g., the total time period that construction activity is temporarily ceased is less than 21 days), then stabilization practices do not have to be initiated on that portion of the site by the fourteenth day after construction activity temporarily ceased.

#### 1.4.2 Structural Practices

Structural practices shall be implemented to divert flows from exposed soils, temporarily store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Structural practices shall be implemented in a timely manner during the construction process to minimize erosion and sediment runoff. Structural practices shall include the following:

- During construction, the Contractor shall keep the site well drained at all times. Standing water on the site shall not be allowed.
- All swales and other drainage routes shall be lined with soil erosion control matting in order to prevent erosion and scour during and after construction as shown on the Contract Drawings.
- The Contractor shall place straw check dams on 75-foot centers, if needed to control sediment.
- 4. Silt barrier fence shall be placed at critical erosion areas in order to prevent sediment from entering adjacent properties.
- 5. All earth-moving activities shall be carried out in such a manner as to minimize the amount of disturbed land.
- 6. Any temporary erosion control measure applied to exposed soil surfaces shall remain functional until vegetative cover is sufficiently established.
- 7. All site drainage shall be directed to the storm water and sediment control system.

### 1.4.2.1 Silt Fences

The Contractor shall provide silt fences as a temporary structural practice to minimize erosion and sediment runoff. Silt fences shall be properly installed to effectively retain sediment prior to commencing construction activities. Silt fences shall be installed in the locations indicated in the Contractor's Storm Water Pollution Prevention Plan. Final removal of silt fence barriers shall be upon approval by the Contracting Officer (or the designated representative).

## 1.4.2.2 Storm Water and Sediment Control System

A storm water and sediment control system shall be constructed by the Contractor in accordance with the Storm Water Pollution Prevention Plan prior to beginning construction. The Contractor is responsible for maintaining the system in accordance with this contract specification. Upon completion of the project, the Contractor is responsible for final clean-out of the system (see Section 01130 – ENVIRONMENTAL PROTECTION).

Storm water shall be segregated into two (2) streams:

- Stormwater runoff from undisturbed or revegetated contaminated areas and clean noncontact stormwater runoff from non-waste areas such as parking lots, covers, caps, etc., and
- 2) Potentially contaminated water that has been in contact with disturbed waste or soils underlying the waste pile covers.

Clean storm water on the east side of the railroad tracks will be diverted to existing drainage ditches on the site. Clean stormwater on the west side of the tracks (HISS side) will be directed through one of the existing H-flume monitoring stations on the north, southeast or southwest sides of the site.

Potentially contaminated storm water will be isolated and collected on-site; sampled; and, if found to be contaminated, will be applied to the land for dust suppression; released if under NPDES permit requirements; or, if necessary; transferred by another Contractor to SLAPS for treatment. Potentially-contaminated stormwater will be directed into a sump and then pumped into above-ground holding tanks. Required practices for the tanks include:

- comply with relevant UL and ASTM standards to ensure their structural integrity;
- be placed on a properly graded and compacted base;
- above-ground piping shall be water tight and properly supported to minimize vibration, abrasion, and allow for expansion, contraction, and leakage;
- all components of the tank system shall be compatible with the stored material;
- tanks shall be tightness tested prior to initial use;
- tanks shall be provided with level indicators or switches to prevent overflows;
- prior to initiating any transfers, the available capacity in the receiving vessel shall be verified and recorded;
- prior to initiating any wastewater transfers, all connections and fittings shall be visually inspected for tightness, signs of leakage or other deterioration;
- temporary connections to the tank system should be made with dry disconnects or with quick disconnects that have a ball valve adjacent to the camlock;
- isolation valves shall be provided around system components that are anticipated to require field service or media replacement;
- check valves should be provided on inlet and outlet lines;
- all accessible portions of the tank system should be inspected daily.

The Contractor shall maintain a 1-foot free board in each tank at all times. Tanks on site shall have the capacity to store the discharge from a 10-year, 24-hour storm event over 9,300 sq. ft. (maximum allowable disturbed area) on site at all times (approximately 40,000 gallons). The Contractor is responsible for collection and storage of the water, and is responsible for sampling and analysis of the collected water. The Contractor is also responsible for transferring contaminated water into the transfer trucks; however, transfer offsite will be performed by a separate contractor.

The Contractor must coordinate with the USACE for sampling and analysis. The Contractor shall not discharge potentially contaminated storm water without approval of the Contracting Officer (or the designated representative). The Contractor must conduct sampling and analysis in a timely manner so tanks can be emptied and adequate storage capacity maintained.

## PART 2 PRODUCTS

### 2.1 COMPONENTS FOR SILT FENCES

## 2.1.1 Geotextile

The geotextile shall comply with the requirements of Section 02272 – SEPARATION/FILTRATION GEOTEXTILE.

### 2.1.2 Silt Fence Stakes and Posts

The Contractor may use either wooden stakes or steel posts for fence construction. Wooden stakes utilized for silt fence construction, shall have a minimum cross section of 2 inches by 2 inches when oak is used and 4 inches by 4 inches when pine is used, and shall have a minimum length of 3 feet. Steel posts (standard "U" or "T" section) utilized for silt fence construction, shall have a minimum weight of 1.33 pounds per linear foot and a minimum length of 3 feet.

#### 2.1.3 Mill Certificate or Affidavit

A mill certificate or affidavit shall be provided attesting that the fabric and factory seams meet chemical, physical, and manufacturing requirements specified above. The mill certificate or affidavit shall specify the actual Minimum Average Roll Values and shall identify the fabric supplied by roll identification numbers. The Contractor shall submit a mill certificate or affidavit signed by a legally authorized official from the company manufacturing the geotextile.

## 2.1.4 Identification Storage and Handling

Geotextile shall be identified, stored and handled in accordance with ASTM D 4873.

## PART 3 EXECUTION

#### 3.1 STORM WATER POLLUTION PREVENTION PLAN

A SWPPP shall be prepared in accordance with EP 1110-16, including the following elements:

- 1) A site description including:
  - Intended sequence of significant activities;
- 2) A site map with:
  - Site topography and drainage patterns;
  - · Approximate slopes after pile removal and grading;
  - Outline of impervious areas and areas which won't be disturbed;
  - · Location of major structural and non-structural controls;
  - Areas where stabilization practices are expected to occur;
  - · Locations of equipment and material storage; and
  - Storm water discharge locations.
- 3) A description of erosion and sediment controls, including:
  - Stabilization practices for all areas disturbed by pile removal activities;
  - Sediment capture methods to remove sediment from on-site run-off before it leaves the site;
  - Structural practices for all drainage/discharge locations;
  - Velocity dissipation devices to provide non-erosive flow conditions from the discharge point along the length of any outfall channel;
  - Waste disposal practices which prevent discharge of solid materials;
  - Measures to minimize offsite tracking of sediments by construction vehicles:
  - Description of the timing during the construction when erosion and sediment control measures will be implemented;
  - Maintenance procedures for control measures identified in the plan; and
  - Identification of any allowable non-storm water discharges.

- 4) Inspection plans, including:
  - Areas to be inspected
  - Inspection schedule;
  - Inspection checklists; and
  - Maintenance procedures;
- 5) Personnel training requirements and documentation.
- 6) Identification of specific responsibilities for implementation of all planned actions.

## 3.2 INSTALLATION OF SILT FENCES

Silt fences shall extend a minimum of 18 inches above the ground surface and shall not exceed 34 inches above the ground surface. Geotextile shall be from a continuous roll, cut to the length of the barrier to avoid the use of joints. When joints are unavoidable, filter fabric shall be spliced together at a support post, with a minimum 6-inch overlap, and securely sealed. A trench shall be excavated approximately 6 inches wide and 6 inches deep on the upslope side of the location of the silt fence. The 6-inch by 6-inch trench shall be backfilled and the soil compacted over the geotextile. Silt fences shall be removed upon approval by the Contracting Officer (or the designated representative).

#### 3.3 MAINTENANCE

The Contractor shall maintain the temporary and permanent vegetation, erosion and sediment control measures, and other protective measures in good and effective operating condition by performing routine inspections to determine condition and effectiveness, by restoration of destroyed vegetative cover, and by repair of erosion and sediment control measures and other protective measures. The following procedures shall be followed to maintain the protective measures.

### 3.3.1 Silt Fence Maintenance

Silt fences shall be inspected in accordance with paragraph INSPECTIONS. Any required repairs shall be made promptly. Close attention shall be paid to the repair of damaged silt fence resulting from end runs and undercutting. Should the fabric on a silt fence decompose or become ineffective, and the barrier is still necessary, the fabric shall be replaced promptly. Sediment deposits shall be removed when deposits reach one-third of the height of the barrier. When a silt fence is no longer required, it shall be removed upon the approval of the Contracting Officer (or the designated representative). The immediate area occupied by the fence and any sediment deposits shall be shaped to an acceptable grade. In accordance with Section 02935 - SOD, Sod shall be placed in the areas disturbed by this shaping.

## 3.3.2 Storm Water and Sediment Control System Maintenance

The storm water and sediment control system shall be inspected in accordance with paragraph 3.4 "Inspections". Any required repairs shall be made promptly. Sediment deposits shall be removed when deposits reach one-third of the original container volume and disposed of with the waste pile material.

## 3.3.3 Straw Check Dam Maintenance

The Contractor shall inspect the check dams in accordance with paragraph 3.4 "Inspections" and remove sediment deposits when heights reach 1/2 the original volume.

## 3.4 INSPECTIONS

#### 3.4.1 General

The Contractor shall inspect disturbed areas of the construction site, areas used for storage of materials that are exposed to precipitation that have not been finally stabilized, stabilization practices, structural practices, other controls, and areas where vehicles exit the site at least once every seven (7) calendar days and within 24 hours of the end of any storm that produces 0.5 inches or more rainfall at the site. Where sites have been finally stabilized, such inspection shall be conducted at least once every month. Inspections should be recorded on the forms included in Appendix D of EP 1110-1-16, or equivalent records.

## 3.4.2 Inspections Details

Disturbed areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the Storm Water Pollution Prevention Plan shall be observed to ensure that they are operating correctly. Discharge locations or points shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles exit the site shall be inspected for evidence of offsite sediment tracking.

## 3.4.3 Inspection Reports

For each inspection conducted, the Contractor shall prepare a report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the Storm Water Pollution Prevention Plan, maintenance performed, and actions taken, including the completed EP 1110-1-16 Appendix D inspection forms. The report shall be furnished to the Contracting Officer (or the designated representative) within 24 hours of the inspection as a part of the Contractor's daily CQC Report. A copy of the inspection report shall be maintained on the job site.

**END OF SECTION 01565** 

## **SECTION 02120**

#### TRANSPORTATION OF HAZARDOUS MATERIALS REQUIREMENTS

#### PART 1 GENERAL

HISS pile materials shall be loaded into rail cars equipped with plastic (burrito-bag) liners along the rail spur, as shown on the Contract Drawings, and transported to a permitted facility (e.g. Envirocare) as designated by the Contracting Officer (or the designated representative) and approved by the USACE. All materials and preparations shall conform to the applicable requirements of the U.S. Department of Transportation (DOT) Hazardous Materials Requirements (HMR) in 49CFR171-178. Wastes generated during pile materials loading and preparation shall be packaged according to the HMR in 49CFR173 and shipped according to the HMR. Materials from the HISS Piles will be blended to ensure that quantities in each rail car meet LSA I criteria as stated in 49 CFR 173 (e.g. Th-230 activity is less than 5400 pCi/g). The Contractor shall submit a blending plan as part of the removal action work plan. This plan will indicate how blending will be accomplished based on available data, field surveys, and analytical constraints. Analytical characterization results will be gathered to determine that the waste acceptance criteria are met and that the appropriate hazard class and proper shipping name are available for each loaded railcar. Estimated volumes of waste to be transported are shown in the Bidding Schedule (Section 00010). No RCRA hazardous waste is currently in the HISS pile material and no hazardous waste is expected to be encountered during the remediation activity, except that which may be generated by the contractor.

#### 1.1 REFERENCES

EM 385-1-1

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

## CODE OF FEDERAL REGULATIONS (CFR)

10 CFR 20 40 CFR 261 40 CFR 262 40 CFR 263 40 CFR 265	Standards for Protecting Against Radiation Identification and Listing of Hazardous Waste Standards Applicable to Generators of Hazardous Waste Standards Applicable to Transporters of Hazardous Waste Interim status standards for owners and operators of hazardous waste treatment, storage, and disposal facilities
40 CFR 300 40 CFR 302 49 CFR 107 49 CFR 171 49 CFR 172	National Oil and Hazardous Substances Pollution Contingency Plan Designation, Reportable Quantities, and Notification Hazardous Materials Program Procedures Definitions and Emergency and Incident Notifications Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements, List of Hazardous Substances and reportable Quantities
49 CFR 173 49 CFR 174 49 CFR 177 49 CFR 178 OTHER	Shippers - General Requirements for Shipments and Packagings Carriage by Rail Carriage by Public Highway Specifications for Packagings

(1996) USACE Safety and Health Requirements Manual

#### 1.2 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 - SUBMITTAL PROCEDURES:

#### SD-09 Reports

**Waste Management Plan; GA -** Prior to start of work, the Contractor shall develop a plan detailing the manner in which wastes shall be managed in accordance with the Contract Documents. This plan shall be prepared in accordance with Part 3 of this Section and include the following:

- 1. Radiologically Contaminated Soils
  - a. Description of temporary staging at the point of removal.
  - b. Conditioning operations to meet disposal facility waste acceptance criteria (WAC) including limits for moisture content.
  - c. Suppression of dust and spread of contamination to areas outside contract limits from temporary staging areas, transportation to loading facilities, loading operations and transportation to the disposal facility.
  - d. Description of sampling and analysis procedures to meet project and disposal facility requirements.

Refer to and coordinate with Site Removal Plan as contained in Section 02221 – SOIL REMOVAL.

- Radiological Waste or Other Regulated Wastes Generated by Contractor as a Result of Execution of the Work
  - a. List of potential waste streams that may be generated by the Contractor.
  - b. Description of how the wastes will be managed onsite, packaged, transported and disposed.
  - c. Identification, handling, record keeping, inspection, treatment or disposal of hazardous wastes resulting from the Work.

Transportation Plan: GA - Prior to the first off-site shipment the Contractor will develop and provide a Transportation Plan (TP) which describes the process for loading and transporting HISS materials for disposal including the steps proposed to comply with the U.S. Department of Transportation Hazardous Materials Regulations (HMR). The TP will specify by name the trained and qualified person responsible for: 1) administering the TP, 2) identifying and training HazMat employees, 3) communicating scheduling notifications and revisions, and 4) interacting with the carriers. The TP will detail the Contractors process for inspecting incoming railcars and notifying the railroad of mechanical defects. It will also detail the process of conducting incoming radiological surveys of railcars, failure criteria, and failure notification procedures. The TP will detail how employees involved in loading or preparing hazardous material for transportation and for those responsible for emergency response information will be identified and trained on the hazards and appropriate responses to material releases. The TP shall specify how the Contractor plans to sample or screen the materials in each railcar and develop appropriate information for the disposal manifest and shipping papers. The TP will specify how the material will be sealed before shipment, how to measure and limit the gross weight of material loaded into each railcar to 263,000 lb., and how the weight and isotopic data will be gathered and used to classify the material for transportation. The TP will detail the process for installing the proper hazardous materials placards and USACE labels on loaded railcars before their departure. The TP will specify how transport vehicles will be appropriately closed and sealed for transport. The TP should also specify how the shipping paper information will be delivered to the railroad. The TP

shall address the establishment of per-railcar shipment files to include, but not limited to, incoming and outgoing radiological survey data, dates and times of railcar arrival, loading, shipment and unloading, shipping papers (including bills of lading) and how those files will be maintained until delivery to the USACE at the end of the project. The TP will specify how (i.e. by designating an individual to man the emergency telephone or contracting with an agency like CHEMTREC) emergency information will be made available to carrier or emergency response organizations in accordance with DOT regulations. The TP will specifically list steps to be taken to notify local response organizations, the Contractor, and the USACE in the event of an incident or release. The TP will include or reference the procedure for responding to spills or releases. The TP does not have to stand alone, and its provisions can be incorporated into or attached to the applicable sections of other work plans as determined by the Contractor and approved by the USACE.

Record keeping; GA. - If hazardous waste is generated during execution of the Work, the Contractor shall provide information necessary to file state annual or EPA biennial reports for all hazardous waste transported, treated, stored, or disposed of under this contract. The Contractor shall not forward this data directly to the regulatory agency but to the Contracting Officer (or the designated representative) at the specified time. The submittal shall contain all the information necessary for filing of the formal reports in the form and format required by the governing Federal or state regulatory agency. A cover letter shall accompany the data to include the contract number, Contractor name, and project location. Records generated for transportation, including the bill of lading, incoming survey and inspections reports, isotopic and other material characterization data, RQ determinations, quality assurance records, loading checklists, manifest forms and other miscellaneous reports shall be assembled for each package, maintained, and turned over to the CO at the end of the project.

Spill Response; FIO. - In the event of a spill or release of a hazardous substance (as designated in 40 CFR 302), or pollutant or contaminant, or oil (as governed by the Oil Pollution Act (OPA), 33 U.S.C. 2701 et seq.), the Contractor shall notify the Contracting Officer (or the designated representative) immediately. The Contractor shall develop a Spill Response Plan and implementing procedures detailing reporting thresholds, how notifications will be communicated, and spill response actions that ensure minimal environmental impact and prompt remediation. The Contractor shall provide instructions for emergency response, including providing the appropriate North American Emergency Response Guide, and notification instructions along with the bills of lading for each shipment. The Contractor shall ensure that the carrier (i.e. railroad) has sufficient insurance and response capability before signing any contract or tender.

**Exception Reports**; **GA.** - In the event that a manifest copy documenting receipt of hazardous waste at the treatment, storage, and disposal facility is not received within 35 days of shipment initiation, the Contractor shall prepare and submit an exception report to the Contracting Officer (or the designated representative) within 37 days of shipment initiation.

## **SD-13 Certificates**

**Qualifications**; **FIO.** - Copies of the current certificates of registration issued to the Contractor and/or sub-contractors or written statements certifying exemption from these requirements.

**Certificates of Disposal**; **FIO**. - Certificates documenting the receipt and acceptance of radiological wastes at Envirocare or other approved permitted waste treatment and disposal facilities within 180 days of each shipment. A copy of the disposal certification shall be included with each railroad car's shipment file. Receipt of these certificates will be required for final payment.

**Packaging Certification**; **GA**. - Submit all transportation related shipping documents to the RA Contractor representative including material disposal manifests, incoming inspection and radiological survey reports, bills of lading or other shipping documents for non-hazardous or

radiological wastes including material characteristics or profiles and supporting waste analysis documents, for USACE review a minimum of 5 working days prior to anticipated shipment. The Contractor will ensure that all HazMat is properly packaged in accordance with the applicable DOT regulations.

## SD-18 Records

Notices of Non-Compliance and Notices of Violation; FIO. - Notices of non-compliance or notices of violation by a Federal, state, or local regulatory agency issued to the Contractor in relation to any work performed under this contract will immediately be provided to the Contracting Officer (or the designated representative). The Contractor shall also furnish all relevant documents regarding the incident and any information requested by the Contracting Officer (or the designated representative), and shall coordinate its response to the notice with the Contracting Officer or his designated representative prior to submission to the notifying authority. The Contractor shall also furnish a copy to the Contracting Officer (or the designated representative) of all documents submitted to the regulatory authority, including the final reply to the notice, and all other materials, until the matter is resolved.

**Training Certifications; GA** - All personnel identified by the Contractor as HazMat employees shall demonstrate that they have been trained in accordance with 49CFR172 Subpart-H. A copy of the plan to train and retrain HazMat employees, including lesson plans, program documentation, and written test shall be included with the TP and shall be submitted to the USACE at least 10 days prior to beginning work.

#### 1.3 QUALIFICATIONS

## 1.3.1 Transportation and Disposal Coordinator

The Contractor shall designate, by position and title, an individual to act as the Transportation and Disposal Coordinator (TDC) for this contract in accordance with the provisions and instructions in the Transportation Plan. Generally, the TDC shall serve as the single point of contact for all environmental regulatory matters and shall have overall responsibility for total environmental compliance at the site including but not limited to accurate identification and classification of project waste and hazardous materials; determination of proper shipping names; identification of marking, labeling, packaging and placarding requirements; completion of disposal manifests, radiological and hazardous waste manifests, bills of lading, exception and discrepancy reports; expediting and tracking of shipments to verify timely receipt and maintain all tracking documents to turn over to USACE upon completion of the Work, and all other environmental documentation. The Contractor may designate an individual other than the TDC to perform some environmental regulatory compliance functions subject to formal request to USACE and concurrence of the Contracting Officer (or the designated representative). Such requests must be accompanied by a resume for the individual to perform such functions and the precise functions to be performed. The TDC shall have current DOT Training certification, including function-specific and emergency-response, as specified in 49CFR172, Subpart-H, and have, at a minimum, one year of specialized experience in identifying and managing the transportation of radiological and hazardous wastes. The TDC will establish the emergency response telephone system to be manned throughout each shipment to provide information to first responders and to notify the USACE.

#### 1.3.2 Training

The Contractor's radiological and hazardous materials (HazMat) employees shall be identified, trained, tested, and certified to safely and effectively carry out their assigned duties in accordance with Section 01351 - SAFETY, HEALTH, AND EMERGENCY RESPONSE (HTRW). The Contractor's HazMat employees transporting hazardous materials or preparing radiological and hazardous materials for transportation shall be trained, tested, and certified in accordance with

49 CFR 172 Subpart H and the Transportation Plan (TP) before starting any related work. Training will consist of a hazardous materials regulations overview (general indoctrination), function-specific training covering the specific materials and associated hazards, and emergency response training for dealing with spills or unexpected releases of the hazardous materials. Recurrent training will be required every three years thereafter according to the Contractor's TP.

#### 1.3.3 Certification

The Contractor and/or subcontractors transporting project waste shall possess a current certificate of registration issued by the Research and Special Programs Administration (RSPA), U.S. Department of Transportation, when required by 49 CFR 107, Subpart G. The Contractor will verify that carriers are also registered. The Contractor will ensure that all appropriate facility permit and/or waste acceptance criteria (WAC) are met and certify that all materials meet the appropriate HazMat requirements before signing the certification statement on any hazardous materials bill of lading.

#### 1.4 LAWS AND REGULATIONS REQUIREMENTS

Work shall meet or exceed the minimum requirements established by Federal, state, and local laws and regulations that are applicable. These requirements are amended frequently and the Contractor shall be responsible for complying with amendments as they become effective. In the event that compliance exceeds the scope of work or conflicts with specific requirements of the contract, the Contractor shall notify the Contracting Officer (or the designated representative) immediately.

#### 1.5 DEFINITIONS

#### 1.5.1 Project Waste

The following categories of waste shall be managed and disposed of by the Contractor in accordance with the project specifications and all applicable federal, state and local laws and regulations.

## 1.5.1.1 Soils With Elevated Radioactivity

Any soil, or soil-like material, whose mixture of radionuclides concentration exceeds soil cleanup criteria from the HISS EE/CA. .

#### 1.5.1.2 Hazardous Wastes

Any regulated wastes generated as a result of execution of the work which meets criteria established in RCRA or specified by the EPA in 40 CFR 261 or which has been designated as hazardous by a RCRA authorized state program. No RCRA hazardous waste currently is present in the Main Pile waste material and no hazardous waste is expected to be encountered during the remediation activity, except that which may be generated by the contractor.

## 1.5.1.3 Hazardous Materials

A substance or material which has been determined by the Secretary of Transportation (49 CFR 171.8) to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and which has been so designated pursuant to the Hazardous Materials Transportation Act, 49 U.S.C Appendix Section 1801 et seq. The term includes materials listed in 49CFR172.101 as hazardous materials, hazardous substances (i.e. soils that exceed a reportable quantity (RQ) under the provisions of 49 CFR 172, Appendix A Sections .101 and .102, materials that meet the defining characteristics for hazard classes and divisions in 49

CFR 173, and marine pollutants as listed in 49CFR172.101 Appendix B. EPA designated hazardous wastes are also hazardous materials.

## PART 2 PRODUCTS

#### 2.1 MATERIALS

The Contractor shall provide all of the materials required for the handling, packaging, labeling, marking, placarding and transporting hazardous wastes and hazardous materials in conformance with DOT-HMR standards. Details in this specification shall not be construed as establishing the limits of the Contractor's responsibility.

## 2.1.1 Packaging

The Contractor shall provide bulk containers for packaging project wastes consistent with the authorizations referenced in the Hazardous Materials Table in 49 CFR 172.101, Column 8. Packaging shall meet the corresponding specifications in 49 CFR 173 referenced in the Hazardous Materials Table, 49 CFR 172.101. Each packaging shall conform to the general packaging requirements of Subpart B of 49 CFR 173, to the requirements of 49 CFR 178 at the specified packing group performance level, to the requirements of special provisions of column 7 of the Hazardous Materials Table in 49 CFR 172.101, and shall be compatible with the material to be packaged as required by 40 CFR 262. The Contractor shall also provide other packaging related materials such as materials used to cushion or fill voids in overpacked containers to prevent damage or corrosion from the contents, etc. Sorbent materials shall not be capable of reacting dangerously with, being decomposed by, or being ignited by the hazardous materials being packaged.

The Contractor shall be responsible all aspects of the packaging of the project wastes such as approving railcars; arranging for the repair of railcars as necessary; scheduling with the rail company; coordinating the receipt, unloading, and return of shipments with the disposal facility; and providing appropriate containers for disposal of project wastes generated during the pile removal activity. Plastic liners (i.e. burrito-bags) are necessary for each railcar and will be supplied and installed by the Contractor.

Although the specific rail cars used shall be arranged for between the Contractor and the carrier, the following is an example of the type of gondola package that has been successfully used for previous FUSRAP transportation projects. Each gondola is 17.4 yds long, has a net capacity of approximately 193,000 lbs., and can contain approximately 76 yd³ of material. The liner is designed to extend over the sides of the car to about 15-cm above the ground. When loading is completed, the liner is closed and secured with elastic shock cords, which allow the material to shift during transport without tearing the liner. Only USACE approved liners shall be used. Drain holes in the bottom of the gondola are left open for drainage of rain during holding and transit. In the event that the rail car drainage system has other than the customary 1-1/2 inch drain holes, the COR will provide guidance for the number of drain holes to be open.

Contractor will track and expedite shipments by coordinating with the carrier and the disposal facility to minimize additional demurrage costs and will describe in the Transportation Plan the process and any supporting software used. The Contractor shall ensure that railcars are ordered sufficiently early to meet schedules and are loaded, shipped, and returned in timely fashion. The shipping papers (i.e. bill of lading) for each shipment shall be made available to the railroad before the scheduled shipping date in accordance with the terms and conditions of the transportation tender, contract, or tariff.

## 2.1.2 Markings

The Contractor shall provide and place markings for each project waste package, freight container, and/or transport vehicle consistent with the requirements of 49 CFR 172, Subpart D and 40 CFR 262.32. Markings must be capable of withstanding, without deterioration or substantial color change, a 180-day exposure to conditions reasonably expected to be encountered during container storage and transportation.

## 2.1.3 Labeling

The Contractor shall provide primary and subsidiary labels for project wastes consistent with the requirements in the Hazardous Materials Table in 49 CFR 172.101, Column 6. Labels shall meet design specifications required by 49 CFR 172, Subpart E including size, shape, color, printing, and symbol requirements. Labels shall be durable and weather resistant and capable of withstanding, without deterioration or substantial color change, a 180-day exposure to conditions reasonably expected to be encountered during container storage and transportation. The Contractor shall also provide and install the USACE labels as required by USACE EC-200-1-3. The labels shall be placed on each side and on top of the closed burrito bag.

#### 2.1.4 Placards

For each off-site shipment of project waste, the Contractor shall provide and install placards consistent with the requirements of 49 CFR 172, Subpart F. Placards shall be installed on each side and each end of bulk packaging, freight containers, transport vehicles, and rail cars as soon as any hazardous material is loaded therein. Placards may be plastic, metal, or other material capable of withstanding, without deterioration, a 30-day exposure to open weather conditions and shall meet design requirements specified in 49 CFR 172, Subpart F.

## 2.1.5 Spill Response Materials

The Contractor shall provide spill response materials including, but not limited to, containers, adsorbent, shovels, and personal protective equipment. Spill response materials shall be available at all times in which project wastes are being handled or transported. Spill response materials shall be compatible with the type of material being handled

## 2.2 EQUIPMENT AND TOOLS

The Contractor shall provide miscellaneous equipment and tools necessary to handle project wastes in a safe and environmentally sound manner. Plastic liners (burrito-bags) shall be inspected before installation for holes, rips, or tears that would reduce the overall effectiveness of the packaging, and shall be installed into empty railcars in such a manner as to prevent tears or leaks from occurring.

## PART 3 EXECUTION

## 3.1 ON-SITE HAZARDOUS AND RADIOLOGICAL WASTE MANAGEMENT

These paragraphs apply to Government-owned waste only. 10 U.S.C. 2692 prohibits contractors from storing contractor-owned hazardous waste on site for any length of time. The Contractor shall be responsible for ensuring compliance with all Federal, state, and local waste laws and regulations and shall verify those requirements when preparing reports, waste shipment records, project waste manifests, or other documents. The Contractor shall identify wastes generated by remediation activities using criteria set forth in 40 CFR 261 or all applicable federal, state and local laws, regulations, and ordinances.

The Contractor shall inspect any project generated waste management areas weekly and shall provide written documentation of the inspection. Inspection logs will contain date and time of inspection, name of individual conducting the inspection, problems noted, and corrective actions taken. The Contractor shall be responsible for ensuring compliance with all federal, state and local laws and regulations applicable to the handling and disposal of all project generated wastes.

Radioactive waste must be managed to ensure that it is not allowed to migrate out of the contamination area into an unrestricted area due to transport by air, surface water or other potential transport mediums.

## 3.1.1 Radiological Contaminated Materials

The Contractor, in conjunction with the Contracting Officer (or the designated representative), shall identify, manage, transport and dispose of all radiologically contaminated waste in accordance with all Federal and state laws, regulations and requirements including but not limited to 10 CFR 20 and EM-385-1-1 and the disposal facility requirements as provided to the Contractor by the Contracting Officer (or the designated representative).

Refer to Section 01351 – SAFETY, HEALTH, AND EMERGENCY RESPONSE (HTRW) for radiological waste characterization information.

# 3.1.2 Waste Management Plan

The Contractor shall prepare a Waste Management Plan (WMP) detailing the manner in which project wastes shall be managed and describe the types and volumes of project wastes anticipated to be managed as well as the management practices to be utilized.

The WMP shall identify the types of various wastes that may be encountered or generated during the field activities. In addition to the pile material, wastes that may be encountered or generated include (but are not limited to):

- PPE and trash:
- erosion control wastes:
- contaminated surface water:
- equipment decontamination fluids;
- equipment maintenance wastes; and
- contaminated equipment and debris.

The approach to managing waste streams identified in this WMP shall emphasize:

- management of the waste generated in a manner that is protective of human health and the environment:
- minimization of waste generation, thereby reducing unnecessary costs and usage of limited permitted storage and disposal capacities;
- compatibility with waste acceptance criteria for designated treatment/disposal facility; and
- compliance with federal, state, and USACE requirements.

The plan must address the type, quantity, concentration, and management and disposition of these waste materials. It should also contain contingency plans for the discovery of unknown materials and the safe handling of unknowns that might be encountered during remediation.

The plan will identify waste characterization procedures for all identified wastes streams. Process knowledge will typically be used to determine if the waste material should be considered potentially contaminated. Wastes that are designated as potentially contaminated will be sampled and analyzed to characterize and classify them for proper laboratory handling, record keeping, transfer, storage, and disposal. Waste analyses will be performed using U.S. Environmental Protection Agency (EPA)-approved procedures where applicable. Wastewater analyses will reference Clean Water Act and/or Safe Drinking Water Act procedures. Quality Assurance/Quality Control (QA/QC) requirements and chain-of-custody procedures will be followed for all sampling and analysis activities.

The plan shall identify the method to be used to ensure accurate piece counts and/or weights of shipments; shall identify waste minimization methods; shall propose facilities to be utilized for treatment, storage, and/or disposal; shall identify areas on-site where wastes are to be handled; shall identify whether transfer facilities are to be utilized; and if so, how the wastes will be tracked to ultimate disposal.

#### 3.2 OFF-SITE WASTE MANAGEMENT

The Contractor shall use Envirocare for disposal of all radiologically contaminated soils under the existing USACE disposal contract. A copy of the disposal requirements contained in this contract will be provided to the Contractor by the Contracting Officer (or the designated representative) for inclusion in the Waste Management Plan. Off-site treatment, storage, and/or disposal facilities with significant compliance problems (such as facilities known to be releasing hazardous constituents into ground water, surface water, soil, or air) shall not be used.

## 3.2.1 Description of TSD Facility and Transporter

The Contractor shall provide the Contracting Officer (or the designated representative) with EPA ID numbers, names, locations, and telephone numbers of TSD facilities and transporters. This information shall be contained in the Waste Management Plan for approval prior to waste disposal.

## 3.2.2 Status of the Facility

Any hazardous wastes that may be generated must meet the facility specific limitations and waste acceptance criteria for disposal. Facilities receiving hazardous waste must be permitted in accordance with 40 CFR 270 or must be permitted by an authorized state program. Contractor must obtain approval from the Contracting Officer prior to initiating shipment.

## 3.2.3 Packaging Certification

Prior to shipment of project wastes or any hazardous material off-site, the Contractor's TDC shall provide written certification to the Contracting Officer or designee that all materials have been properly packaged, labeled, and marked in accordance with Department of Transportation and EPA requirements. The Contracting Officer or designee will sign the appropriate packaging and shipping documents for the USACE. An example of this certification shall be included in the Waste Management Plan. An individual file will be completed for each package of hazardous material shipped, which will be turned over to the USACE at the end of the project. Each file will contain (at a minimum) the volume calculations, activity spreadsheets, bills of lading, any non-hazardous manifests or shipping papers, the original signed waste manifest, signed receipt from Envirocare, certificate of disposal, railcar serial number, date of rail car delivery to site, incoming inspection report, date of loading, date of shipment, date of receipt at Envirocare, date of disposal, date railcar was released to the railroad, departure inspection or survey reports, and any associated quality-control or quality assurance records.

## 3.2.4 Transportation

The Contractor will use the appropriate characterization data (i.e. the average soils values from Table 3-4) from the "Hazelwood Interim Storage Piles Site Storage Piles Characterization Report,", the Main Pile PDI, and/or samples or analyses from individual railcars or packages as input to calculations for determining shipping paper and manifest entries. Hazardous materials transportation shall comply with all requirements in the Department of Transportation referenced regulations in the 49 CFR series and as implemented by the Contractors Transportation Plan. The Contractor shall use the manifests acquired from the permitted disposal facility and they shall be completed according to the instructions and any applicable state or local law or regulation. The Contractor shall notify the USACE if any hazardous wastes or radioactive wastes are detected during this task. Completed manifests shall be submitted to Contracting Officer or designee for review, approval, and signature prior to the scheduled shipment. Notifications and scheduling information for the disposal site shall be submitted with the manifest.

## 3.2.5 Treatment and Disposal of Hazardous Wastes

Any hazardous waste generated by remediation activities shall be transported to an approved hazardous waste treatment, storage, or disposal (TSD) facility within 90 days of the accumulation start date on each container. The Contractor shall ship hazardous wastes only to facilities that are properly permitted to accept the hazardous waste or operating under interim status.

#### 3.3 HAZARDOUS MATERIALS MANAGEMENT

The Contractor, in consultation with the Contracting Officer (or the designated representative), shall evaluate prior to shipment of any material off-site whether the material is regulated as a hazardous waste in addition to being regulated as a hazardous material under 49CFR; this shall be done for the purpose of determining proper shipping descriptions, marking requirements, etc., as described below.

# 3.3.1 Identification of Proper Shipping Names

The Contractor shall use 49 CFR 172.101 to identify proper shipping names for each hazardous material (including hazardous wastes) to be shipped off-site. Proper shipping names shall be submitted to the Contracting Officer (or the designated representative) in the form of draft shipping documents for review and approval. The proper shipping name for HISS materials that exceed the RQ weight per package is expected to be, RQ, environmentally hazardous substance, solid, n.o.s., Class 9, UN-3077, PG III (Ra-226, Th-230, U-nat, ...) The proper shipping name for shipments that do not exceed the RQ is expected to be, Contaminated Soils, not DOT regulated. The proper shipping name for Class 7 material is RQ, Radioactive material, LSA, n.o.s., Class 7, UN-2912 (Ra-226, Th-230, U-nat. ....).

# 3.3.2 Packaging, Labeling, and Marking

The Contractor shall package, label, and mark hazardous materials/wastes using the specified materials and in accordance with the referenced authorizations.

Bulk packaging in a covered low-side gondola railcar that will retain the contents under the normal conditions of transportation is assumed. Because of their limited number, the Contractor must order and schedule these in advance from the railroad. Each loaded railcar shall display the appropriate hazardous materials placard (Class-9 or Class-7 placards are assumed) on the front, back, and either side. Also, when required, each nonbulk package shall display the appropriate hazardous materials label including the hazardous waste label if required. Each rail gondola car will also display 3 labels, described in USACE EC-200-1-3, one on top and one on each side.

## 3.3.3 Shipping Documents

The Contractor shall ensure that each shipment of hazardous material sent off-site is accompanied by properly completed shipping documents including the disposal manifest and waste profiles as appropriate.

## 3.3.3.1 Other Hazardous Material Shipment Documents

The Contractor shall prepare a bill of lading for each shipment of hazardous material not otherwise properly described on a disposal manifest. The bill of lading shall satisfy the requirements of 49 CFR 172, Subpart C, and any applicable state or local law or regulation, and shall be submitted to the designated USACE representative for review, approval, and signature. The USACE will sign for time-sensitive shipments in timely fashion. For laboratory samples and treatability study samples, the Contractor shall prepare bills of lading and other documentation as necessary to satisfy conditions of the sample exclusions in 40 CFR 261, Section .4(d) and (e) and any applicable state or local law or regulation. All bills of lading shall be signed by the USACE Official.

### 3.4 OBTAINING EPA ID NUMBERS

The USACE has obtained EPA ID-number MOR-000038216 and Missouri ID-036405 to cover any hazardous wastes generated during this work. However, no hazardous wastes are expected to be encountered during the remediation activity, except that which may be generated by the Contractor. Carriers shall supply EPA ID numbers for inclusion in the hazardous waste manifest.

#### 3.5 WASTE MINIMIZATION

The Contractor shall minimize the generation of solid or hazardous waste to the maximum extent practicable. This shall be a fundamental principle of the Contractors Waste Management Plan. The major effort will be to ensure that potentially contaminated solid materials are localized and do not come into contact with any clean media, which could create more potentially contaminated waste. Waste minimization will also be accomplished through waste segregation, selection of PPE, waste handling (spill control) and minimizing use of water in decontamination activities. Solid wastes such as Tyvek Toveralls and packaging materials will be segregated. An attempt will be made to separate visibly soiled Tyvek coveralls from unsoiled ones. In some instances, partially soiled coveralls can be cut up and segregated. Other solid waste will not be allowed to contact potentially contaminated trench materials. Efforts will be made to keep Tyvek coveralls clean, reuse clean coveralls, and only wear coveralls when necessary. Proper waste handling and spill control techniques will help minimize waste, particularly around the decontamination areas where decontamination water must be contained. In addition, hoses used in the decontamination area will not be permitted to leak, which would create more wastewater to be disposed.

# 3.6 RECORD KEEPING

The Contractor shall be responsible for maintaining adequate records to support information provided to the Contracting Officer (or the designated representative) regarding exception reports, annual reports, and biennial reports. The Contractor shall keep records of railcar serial numbers, weights loaded, loading, shipping, receiving, unloading, and return dates. All hazardous materials shipping papers shall be retained for at least one year following the last shipment. All hazardous materials shipment files will be turned over the USACE Contracting Officer (or the designated representative) at the conclusion of the Work. Any hazardous waste manifests will be maintained for three years following in accordance with 40CFR262.40(a).

#### 3.7 SPILL RESPONSE

The Contractor shall respond to any spill of project wastes or materials that are in the custody or care of the Contractor pursuant to this contract. Any direction from the Contracting Officer (or the designated representative) concerning a spill or release shall not be considered a change under the contract. The Contractor shall notify the Contracting Officer and comply with all applicable requirements of Federal, state, or local laws or regulations regarding any spill incident.

The Spill Response Plan to be prepared by the contractor will identify potential spill site locations, specific measures to be taken in case of a spill at each location, and what level of emergency spill response is expected from site personnel. The spill response equipment to be maintained at each location will also be specified in the plan, as well as the inspection frequency or other measures that will be performed to ensure that spill response equipment levels are adequately maintained through the entire project. The plan will also specify the emergency response training and qualification level that will be provided to site personnel, and how the contractor will assure that the personnel will not respond at levels beyond their training and qualification.

#### 3.8 EMERGENCY CONTACTS

The Contractor shall be responsible for complying with the emergency contact provisions in 49 CFR 172.604. Whenever the Contractor ships project wastes or hazardous materials, the Contractor shall provide a 24-hour emergency response contact and phone number of a person knowledgeable about the hazardous materials being shipped and who has comprehensive emergency response and incident mitigation information for that material, or has immediate access to a person who possesses such knowledge and information. The phone must be monitored on a 24-hour basis at all times when the project wastes or hazardous materials are in transportation including during storage incidental to transportation. The Contractor shall ensure that information regarding this emergency contact and phone number, including the appropriate DOT Emergency Response Guide number, is placed on all hazardous materials shipping documents. The Contractor shall designate an emergency coordinator and post the following information at areas in which hazardous wastes are managed:

- a. The name of the emergency coordinator.
- b. Phone number through which the emergency coordinator can be contacted on a 24-hour basis.
- c. The telephone number of the local fire department.
- d. The location of fire extinguishers and spill control materials.
- e. Written instructions for notification in the event of any release during transportation to the permitted disposal facility.

**END OF SECTION 02120** 

## **SECTION 02221**

#### SOIL REMOVAL

#### PART 1 GENERAL

#### 1.1 REFERENCES

## Agricultural Marketing Service (AMS)

AMS-01 (Amended through August 1988) Federal Seed Act Regulations (Part 201-202)

#### 1.2 SUBMITTALS

Government approval is required for all submittals with a "GA" designation; submittals having and "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 – SUBMITTAL PROCEDURES:

#### **SD-08 Statements**

**Removal, Grading and Restoration Plan; GA.** – The Contractor shall submit an Excavation/Removal plan detailing the proposed steps for the Phase 2 removal of the Main Pile, perform final grading and restore the area. This plan shall specifically include information on the following:

- Equipment to be used
- Construction sequencing plan detailing specifically the approach to be taken to accomplish the removal in an efficient manner as well as a manner which will protect existing features, control storm water run-on and run-off, and protect contaminated and clean areas.
- Information regarding the location of erosion control facilities
- Information regarding equipment routing patterns within the construction limits
- Personnel to be used
- Details on how the removal and grading will be accomplished
- Information regarding how existing features will be protected
- Information regarding the construction of haul roads, if necessary. Information shall include details about the size of gravel, geofabric utilized, thickness of roadbed, location of road and maintenance procedures
- Information regarding how geotextile materials will be placed, including details on handling and seaming procedures.
- Information regarding how the pile will be protected after hours and during rain events. Details about the usage of the existing tarp and new tarps to protect the pile shall be discussed in detail.
- Details about stormwater collection and how the Contractor intends to protect the site from run-on and run-off.
- Information about how the clean and contaminated areas will be separated and protected during removal activities.
- Final grading procedures
- Details about how topsoil material will be brought to site and placed appropriately.
- Blending Procedures.
- Information on SOD placement procedures.

## 1.3 SITE CONDITIONS

## 1.3.1 Utility Location and Identification

Due to the nature of the work it is not expected that any underground utilities will be encountered. However, it is still the Contractor's responsibility to ensure no utilities are encountered by contacting appropriate agencies or companies, such as Missouri One-Call System (800-344-7483), for utility locations and identification.

## 1.3.2 Environmental Requirements

Do not perform earthwork when weather conditions or the condition of materials are such, in the opinion of the Contracting Officer (or the designated representative), that work cannot be performed satisfactorily. The Contractor shall cease operations as directed by the Contracting Officer (or the designated representative) such as during precipitation events involving lightning. The waste pile shall be covered to the extent possible (not to interfere with continuing work) during all precipitation events to limit moisture exposure.

Plan work so as to provide adequate protection during storms with provisions available for preventing flood damage. Protect work against damage from high ground water levels.

Keep sewers, drains and ditches open for surface drainage. Divert all water from areas not within the work site around the removal area.

When it is necessary to haul soft or wet soil material over roadways, use suitably tight vehicles to prevent spillage. Clear away spillage of materials on roadways caused by hauling.

Do not dispose of water in the removal area by draining through completed portions of the site or uncontaminated areas.

## 1.3.3 Protection

The Contractor shall be responsible for identifying and protecting all overhead or underground public utility and private lines, pipes, conduits, structures and property of whatever nature. Damages and expenses for direct and indirect injury to such structures or to any person or property by work of this Contract, rest solely with the Contractor.

#### 1.3.4 Pile Cover

The Contractor shall minimize the area of the Main Pile that is open at any time to prevent exposure of the waste to precipitation to minimize contaminated storm water, moisture in the waste, and dust emissions. The waste pile working areas shall be re-covered with the existing synthetic cover when work therein is suspended or left unattended, such as, at the end of a workday. The areas where removal is completed shall be covered with a new temporary non-permeable synthetic cover at the end of each day; and removed, as necessary, for access to the pile. All covers shall be capable of being anchored in place on a daily basis. Use caution with the existing cover to maintain its integrity as a water barrier throughout the project. If the existing cover degrades to the extent that it can no longer provide an adequate barrier, the Contractor shall be responsible for replacing the cover with another adequate water barrier. The existing synthetic cover and the new temporary cover used in executing the work shall be disposed of along with the waste material. Existing riprap shall be stockpiled as shown on the Contract Drawings.

#### 1.3.5 Accommodation of Traffic

Do not obstruct roads in performance of work in this Section. Do not obstruct fire hydrants.

#### PART 2 PRODUCTS

#### 2.1 TOPSOIL

Topsoil shall be obtained from a source approved by the USACE.

#### PART 3 EXECUTION

#### 3.1 REMOVAL

The Contractor shall remove waste materials from the Main Pile as shown on the Contract Drawings. Excavations below the grades shown on the drawings will not be permitted. The slope of the pile surface shall not exceed 1V on 2H at the end of each workday. Prior to beginning removal activities, the Contractor shall complete a Field Safety Checklist (at the end of this section) and obtain the required signatures. The Contractor shall final grade and protect the removal area in accordance with provisions of this Section (paragraphs 3.4 – GRADING and 3.5 – PROTECTION). The Contractor shall notify the USACE if any unexpected hazardous wastes or radiological wastes are detected during the removal action.

#### 3.1.1 BLENDING

The Contractor shall provide a plan for blending such that all soils meet LSA I criteria as stated in 49 CFR 173 (e.g. Th-230 activity is less than 5400 pCi/g). This plan will indicate how blending will be accomplished based on available data, field surveys, and analytical constraints. The Contractor shall also make provisions for obtaining samples in each 100 square meters after achieving final grade.

## 3.1.2 REMOVAL UNIT PRICE

The unit of measurement for removal will be in-place cubic yards, computed by the difference in topographic surveys taken before and after the removal. The amount paid for will be the actual number of cubic yards of material, measured in its original position and removed from the pile, which is acceptably disposed of as herein specified. The measurement will not include the yardage removed without authorization or the yardage of any material not disposed of at Envirocare of Utah. The measurement will not include the amount of any removal performed prior to the taking of elevations and measurements of the undisturbed grade. The measurements will not include any grading or earthmoving required to construct temporary storage facilities or control drainage.

#### 3.2 DRAINAGE AND DEWATERING

## 3.2.1 Drainage

Surface water shall be directed away from the removal area and directed to the existing ditches leading to the permitted outfalls to prevent erosion or flooding of the area. Diversion ditches, dikes and grading shall be provided and maintained during construction. The open face of the removal area within the waste pile shall be protected to prevent erosion and sloughing. Removal

shall be performed so that the site, and the area immediately surrounding the site, shall be continually and effectively drained.

#### 3.3 REMOVED MATERIALS

All material removed from the waste piles shall be disposed of as specified in Section 02120 – TRANSPORTATION AND DISPOSAL OF HAZARDOUS MATERIALS. Waste material placed in rail cars must be covered at the end of each workday and during inclement weather.

#### 3.4 GRADING

Areas within the designated removal areas shall be removed true-to-grade, shaped to drain, and shall be maintained free of trash and debris until final inspection has been completed and the work has been accepted. Surface shall be finished not more than 0.10 feet above or below the established grade or approved cross section. No borrow materials shall be brought on site. Existing materials shall be used to achieve required grades.

#### 3.5 PROTECTION

## 3.5.1 Newly graded areas

Newly graded areas shall be protected from traffic, erosion, and any settlement or washing. Prior to acceptance of the work, all erosion and drainage problems shall be repaired, and grades reestablished, to the required elevations and slopes as shown on the drawings. All work shall be conducted in accordance with the environmental protection requirements of this contract. Portions of the newly graded areas, as determined by the Contracting Officer, will become access road during removal activities. All newly graded areas, not designated as access road, shall be sodded according to SECTION 02935 – SOD. For purposes of bid preparation, the Contractor shall assume one third of the newly graded area will become access road and two thirds of the newly graded area will be sodded.

**END OF SECTION 02221** 

## ATTACHMENT

## SAMPLE FIELD SAFETY CHECKLIST

1. Reviewed work plans with Contracting Officer (or the designated representative). 2. Requested maps of above ground and underground utilities. 3. Reviewed utility maps (water supply, firewater, sewer, process sewer, electric, gas, tele navigational, other underground facilities). 4. Following utilities were identified based on Missouri One-Call System:  Name of utilities and their representatives:  UTILITY NAME  SIGNATURE OF UTILITY REPRESE  5. Determine if any permits or approvals are required for work around existing utilities.  TYPE  6. Obtained necessary permits or approvals:  YES or NO  Permit expiration date	
<ol> <li>Requested maps of above ground and underground utilities.</li> <li>Reviewed utility maps (water supply, firewater, sewer, process sewer, electric, gas, tele navigational, other underground facilities).</li> <li>Following utilities were identified based on Missouri One-Call System:</li> <li>Name of utilities and their representatives:</li> <li>UTILITY NAME</li> <li>SIGNATURE OF UTILITY REPRESE</li> <li>Determine if any permits or approvals are required for work around existing utilities.</li> <li>TYPE</li> <li>Obtained necessary permits or approvals:</li> <li>YES or NO</li> </ol>	
Name of utilities and their representatives:  UTILITY NAME  SIGNATURE OF UTILITY REPRESE  5. Determine if any permits or approvals are required for work around existing utilities.  TYPE  6. Obtained necessary permits or approvals:  YES or NO	ephone,
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6. Obtained necessary permits or approvals:	NTATIVE
6. Obtained necessary permits or approvals:	
6. Obtained necessary permits or approvals:YES or NO	
YES or NO	
Permit expiration date	
•	
Removal Safety Sign-off Sheet (to be completed before removal activities commence):	
Field location of the removal has been evaluated for clearance of underground utilities (e.g. elecsewers, firewater, and other piping) as well as clearance from overhead power lines (See EM 38 Table 11-3).	
In addition, the SSHO and the pile removal foreman have familiarized themselves with the site's	SSHP.
PRINTED NAME SIGNATURE	
Site Superintendent	
Contracting Officer (or designated representative)	
Pile Removal Foreman	
SSHO	

Note: Removal activities will commence after all affected parties have signed this form.

## **SECTION 02272**

## SEPARATION/FILTRATION GEOTEXTILE

#### PART 1 GENERAL

#### 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

American Socie	tv For	Testina	And	Materials	(ASTM)

ASTM D 3786	(1987) Hydraulic Bursting Strength of Knitted Goods and Nonwoven
	Fabrics – Diaphragm Bursting Strength Tester Method
ASTM D 3787	Puncture Resistance
ASTM D 4354	(1996) Sampling of Geosynthetics for Testing
ASTM D 4355	(1992) Deterioration of Geotextiles from Exposure to Ultraviolet Light and
	Water (Xenon-Arc Type Apparatus)
ASTM D 4439	(1995) Standard Terminology for Geotextiles
ASTM D 4491	(1992) Water Permeability of Geotextiles by Permittivity
ASTM D 4533	(1991) Trapezoid Tearing Strength of Geotextiles
ASTM D 4632	(1991) Grab Breaking Load and Elongation of Geotextiles
ASTM D 4751	(1993) Determining Apparent Opening Size of a Geotextile
ASTM D 4833	(1988, R 1996) Index Puncture Resistance of Geotextiles,
	Geomembranes, and Related Products
ASTM D 4873	(1995) Identification, Storage, and Handling of Geotextiles

#### 1.2 SUBMITTALS

Government approval is required for all submittals with a "GA" designation; submittals having and "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 – SUBMITTAL PROCEDURES:

## **SD-13 Certificates**

**Geotextile; FIO** – A minimum of 14 days prior to scheduled use, the Contractor shall submit a certificate of compliance stating that the geotextile meets the requirements of this section. This submittal shall include copies of manufacturer's quality control test results. For needle punched geotextiles, the manufacturer shall also certify that the geotextile has been continuously inspected using permanent on-line full-width metal detectors and does not contain any needles which could damage other geosynthetic layers. A person having legal authority to bind the geotextile manufacturing company shall attest to the certificate of compliance.

## 1.3 DELIVERY, STORAGE AND HANDLING

#### 1.3.1 General

Geotextiles shall be labeled, handled, and stored in accordance with ASTM D 4873 and as specified herein. Each roll shall be wrapped in an opaque and waterproof layer of plastic during shipment and storage. The plastic wrapping shall not be removed until deployment. Each roll shall be labeled with the manufacturer's name, geotextile type, lot number, roll number, and roll dimensions (length, width, gross weight). Geotextile or plastic wrapping damaged as a result of

storage or handling shall be repaired or replaced, as directed. Geotextile shall not be exposed to temperatures in excess of 140 degrees F or less if recommended by the manufacturer.

## 1.3.2 Handling

No hooks, tongs or other sharp instruments shall be used for handling the geotextile. Geotextile shall not be dragged along the ground.

#### PART 2 PRODUCTS

## 2.1 RAW MATERIALS

## 2.1.1 Geotextile

The geotextile shall be a pervious sheet of polymeric material and shall consist of long-chain synthetic polymers composed of at least 85 percent by weight polyolefins, polyesters, or polyamides. Stabilizers and/or inhibitors shall be added to the base polymer if necessary to make the filaments resistant to deterioration by ultraviolet light, oxidation, and heat exposure. Regrind material that consists of edge trimming and other scraps that have never reached the consumer may be used to produce the geotextile. Post-consumer recycled material shall not be used. Geotextile shall be formed into a network such that the filaments or yarns retain dimensional stability relative to each other, including the selvages. The geotextile shall comply with ASTM D 4439, and shall consist of polymeric filaments that are formed into a stable network such that filaments retain their relative positions. The filament shall consist of a long-chain synthetic polymer composed of at least 85 percent by weight of ester, propylene, or amide, and shall contain stabilizers and/or inhibitors added to the base plastic to make the filaments resistant to deterioration due to ultraviolet and heat exposure. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life at a temperature range of zero to 120 degrees F.

The required geotextile physical properties for road stabilization, contamination barrier and silt fencing are detailed below.

## **Geotextile For Road Stabilization and Contamination Barrier**

Physical Property	Test Procedure	Strength Requirement
Grab Tensile	ASTM D 4632	200 lbs. min.
Elongation (%)		30% max
Mullen Burst	ASTM D 3786	450 psi
Trapezoid Tear Strength	ASTM D 4533	115 lbs.
Puncture Resistance	ASTM D 3787	85 lbs.

## Geotextile for Silt Fence

Physical Property	Test Procedure	Strength Requirement
Grab Tensile	ASTM D 4632	100 lbs. min.
Elongation (%)		30% max
Trapezoid Tear	ASTM D 4533	55 lbs. min.
Mullen Burst	ASTM D 3786	270 lbs. min.
Permittivity	ASTM D 4491	0.2 sec <sup>-1</sup>
AOS (U.S. Std Sieve)	ASTM D 4751	20-100

#### 2.1.2 Thread

Sewn seams shall be constructed with high-strength polyester, nylon, or other approved thread type. Thread shall have ultraviolet light stability equivalent to the geotextile and the color shall contrast with the geotextile.

## 2.2 TESTS, INSPECTIONS, AND VERIFICATIONS

## 2.2.1 Manufacturing, Sampling, and Testing

Geotextiles and factory seams shall meet requirements in order to maintain manufacturing quality control. Testing shall be performed in accordance with the manufacturer's approved quality control manual. As a minimum, geotextiles shall be randomly sampled for testing in accordance with ASTM D 4354 (Procedure A).

#### PART 3 EXECUTION

#### 3.1 SURFACE PREPARATION

3.1.1 The surface underlying the geotextile shall be smooth and free of ruts or protrusions that could damage the geotextile.

## 3.2 SEAMING

## 3.2.1 Overlap Seams

Geotextile panels shall be continuously overlapped a minimum of 12 inches. Where it is required that seams be oriented across the slope, the upper sheet shall be lapped over the lower sheet. The Contractor has the option of field sewing instead of overlapping.

## 3.3 REPAIRS

Geotextile damaged during installation shall be repaired by placing a patch of the same type of geotextile which extends a minimum of 12 inches beyond the edge of the damage defect. Patches shall be continuously fastened using a sewn seam or other approved method. The machine direction of the patch shall be aligned with the machine direction of the geotextile being repaired. Geotextile which cannot be repaired shall be replaced.

END OF SECTION 02272

## **SECTION 02935**

## SOD

#### PART 1 GENERAL

#### 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

## Illinois Department of Transportation (IDOT)

The material for, and construction of, sodding shall conform to the provisions of the hereinafter cited section and as specified, articles of the IDOT, "Standard Specifications for Road and Bridge Construction" adopted January 1, 1997 except as noted herein. The term "Engineer" as used in the Standard Specifications shall be interpreted to mean "Contracting Officer."

#### 1.2 SCOPE.

The work covered by this section consists of furnishing all plant, labor, equipment, and materials, and performing all operations necessary for sodding the areas specified herein.

#### 1.3 QUALITY CONTROL.

#### 1.3.1 General

The Contractor shall establish and maintain quality control for all operations herein specified to assure compliance with contract specifications and shall maintain records of its quality control for all construction operations including but not limited to the following:

- (1) Preparation of ground surface.
- (2) Sodding
- (3) Watering

## 1.3.2 Reporting.

A copy of these records, as well as the records of corrective action taken, shall be furnished to the Government daily in accordance with Section - 01440, CONTRACTOR QUALITY CONTROL.

## 1.4 AREAS TO BE TREATED.

Sod shall be established on all newly excavated areas (at ground level) as described in Section 02221 - SOIL REMOVAL, Paragraph 3.5 - PROTECTION, Subparagraph 3.5.1 - Newly graded areas. All existing grass areas disturbed by construction operations shall be sodded.

In addition to the above, the Contractor will treat the area where main pile material was removed under the supplemental pile removal action modification as if it were a newly excavated area under this contract, including the application of sod. This area is shown on drawing C-1.

## 1.5 COMMENCEMENT, PROSECUTION, AND COMPLETION.

Sodding operations shall not be performed when the ground is frozen or when the temperature is above 80° F.

## PART 2 PRODUCTS

## 2.1 MATERIALS

## 2.1.1 Sod

Sod shall be turf type fescue (Rebel II).

#### 2.1.2 Water

Water shall be free from oil, acid, alkali, salt, etc. and shall be from an approved source prior to use.

## PART 3 EXECUTION

## 3.1 SODDING TIMES AND CONDITIONS

#### 3.1.1 Times and Conditions

When all work under this contract is completed; except for the placement of sod, and this work is not performed because of the seasonal limitations stated in Section 02935-1.5, or because, in the opinion of the Contracting Officer or the designated representative, unfavorable conditions occurred within the specified sodding season; the time for completion will be extended by the number of calendar days that this work is thereby delayed.

## 3.2 SITE PREPARATION

The Contractor Officer (or the designated representative) shall verify that finished grades are as indicated on the Contract Drawings.

#### 3.3 SOD PLACEMENT

Sod shall be placed in accordance with the IDOT Specification - SECTION 252, SODDING, Articles 252.03 through 252.11

## 3.4 RESTORATION AND CLEAN UP

#### 3.4.1 Restoration

Existing turf areas, pavements and facilities that have been damaged from the sodding operations shall be restored to its original condition at Contractor's expense.

## 3.4.2 Clean Up

Excess and waste material shall be removed from the sodding operation and shall be disposed of off the site. Adjacent paved areas shall be cleaned.

## 3.5 PROTECTION OF SODDED AREAS

Immediately after sodding, the area shall be protected against traffic, or other use, by erecting barricades and providing signage as required, or as directed by the Contracting Officer (or the designated representative).

## 3.6 INSPECTION AND ACCEPTANCE

An inspection shall be held by the Contracting Officer (or the designated representative). Time for the inspection shall be established in writing.

Acceptance of sodded areas will be based upon having a dense, well rooted turf, capable of preventing all erosion. Sodded areas which show signs of erosion, ruts, etc. will not be acceptable. The sodded area shall be mowed to a height of three inches immediately prior to inspection.

END OF SECTION 02935

## SECTION E Inspection and Acceptance

## INSPECTION/ACCEPTANCE

The performance by the Contractor and the quality of work delivered, including documentation or written material in support thereof, shall be subject to inspection, review, and acceptance by the Contracting Officer or his/her authorized representative (COR). No inspector is authorized to change any provision of the specifications without written authorization of the Contracting Officer, nor shall the presence or absence of an inspector relieve the Contractor from any requirements of the contract. Formal acceptance will be made by the Contracting Officer or his/her authorized representative for and in behalf of the Government.

## 52.246-4 INSPECTION OF SERVICES--FIXED-PRICE (AUG 1996)

- (a) Definitions. "Services," as used in this clause, includes services performed, workmanship, and material furnished or utilized in the performance of services.
- (b) The Contractor shall provide and maintain an inspection system acceptable to the Government covering the services under this contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the Government during contract performance and for as long afterwards as the contract requires.
- (c) The Government has the right to inspect and test all services called for by the contract, to the extent practicable at all times and places during the term of the contract. The Government shall perform inspections and tests in a manner that will not unduly delay the work.
- (d) If the Government performs inspections or tests on the premises of the Contractor or a subcontractor, the Contractor shall furnish, and shall require subcontractors to furnish, at no increase in contract price, all reasonable facilities and assistance for the safe and convenient performance of these duties.
- (e) If any of the services do not conform with contract requirements, the Government may require the Contractor to perform the services again in conformity with contract requirements, at no increase in contract amount. When the defects in services cannot be corrected by reperformance, the Government may (1) require the Contractor to take necessary action to ensure that future performance conforms to contract requirements and (2) reduce the contract price to reflect the reduced value of the services performed.
- (f) If the Contractor fails to promptly perform the services again or to take the necessary action to ensure future performance in conformity with contract requirements, the Government may (1) by contract or otherwise, perform the services and charge to the Contractor any cost incurred by the Government that is directly related to the performance of such service or (2) terminate the contract for default.

## SECTION F Deliveries or Performance

## 52.242-15 STOP-WORK ORDER (AUG 1989)

- (a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either--
- (1) Cancel the stop-work order; or
- (2) Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.
- (b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if--
- (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
- (2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
- (d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

## 52.242-17 GOVERNMENT DELAY OF WORK (APR 1984)

(a) If the performance of all or any part of the work of this contract is delayed or interrupted (1) by an act of the Contracting Officer in the administration of this contract that is not expressly or impliedly authorized by this contract, or (2) by a failure of the Contracting Officer to act within the time specified in this contract, or within a reasonable time if not specified, an adjustment (excluding profit) shall be made for any increase in the cost of performance of

this contract caused by the delay or interruption and the contract shall be modified in writing accordingly. Adjustment shall also be made in the delivery or performance dates and any other contractual term or condition affected by the delay or interruption. However, no adjustment shall be made under this clause for any delay or interruption to the extent that performance would have been delayed or interrupted by any other cause, including the fault or negligence of the Contractor, or for which an adjustment is provided or excluded under any other term or condition of this contract.

(b) A claim under this clause shall not be allowed (1) for any costs incurred more than 20 days before the Contractor shall have notified the Contracting Officer in writing of the act or failure to act involved, and (2) unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of the delay or interruption, but not later than the day of final payment under the contract.

# SECTION H Special Contract Requirements

<u>Paragraph</u> <u>No. or</u>	<u>Clause Title</u>	Version Date (if	<u>Page</u>
FAR/DFARS Reference		applicable)	
1	Accident Investigations and Reporting		1
2	Accident Prevention Program		1
3	Changes in Performance of Work as Negotiated		1
4	Commencement, Prosecution, and Completion of Work		2
5	Contamination of Water		2
6	Contract Performance		2
7	Contractor Use of Site		3
8	Daily Inspections		3
9	Damage to Work		3
10	Environmental Litigation		4
11	Order and Coordination of Work		4
12	Partnering		5
13	Pay Requests		5
14	Physical Data		5
15	Protection of Material and Work		5
16	Required Insurance – Work on a Non-Government Installation		6
17	Requirements of Regulatory Agencies		7
18	Right-of-Way		7
19	Safety and Health Requirements Manual EM 385-1-1		8
20	Subcontracts		8
21	Time Extensions for Unusually Severe Weather		8
52.211-11	Liquidated Damages—Supplies, Services, or Research and Development	SEP 2000	9
52.222-42	Statement of Equivalent Rates for Federal Hires	MAY 1989	9
52.231-5000 (EFARS)	Equipment Ownership and Operating Expense Schedule	MAR 1995	10
52.232-5002 (EFARS)	Continuing Contracts (Alternate)	MAR 1995	10
52.236-16	Quantity Surveys	APR 1984	11
52.249-5000 (EFARS)	Basis for Settlement of Proposals		12
	Contract Drawings, Maps, and Specifications	AUG 2000	12

## SECTION H Special Contract Requirements

#### 1. ACCIDENT INVESTIGATIONS AND REPORTING.

Refer to EM 385-1-1, Paragraph 01.D. Accidents shall be investigated and reports completed by the immediate supervisor of the employee(s) involved and reported to the Contracting Officer or an authorized representative within one working day after the accident occurs. The accident Investigation report shall be made on ENG Form 3394.

(End of clause)

#### ACCIDENT PREVENTION PROGRAM.

Refer to Contract Clause FAR 52.236-13 entitled, "Accident Prevention". Within 15 days after receipt of Notice of Award of the contract, and at least 7 days prior to the prework conference, the original and one copy of the Accident Prevention Program shall be submitted to the Contracting Officer for review. The program shall be prepared in the following format:

- a. An executed LMV Form 358R, Administrative Plan.
- b. An executed LMV Form 359R, Activity Hazard Analysis.
- c. A copy of company policy statement of accident prevention and any other guidance statements normally provided new employees. Each company employee shall be required to sign the company policy statement of accident prevention to verify that all employees have been informed of the safety program, and such signed statements shall be maintained at the project site.
- d. When marine plant and equipment are in use under a contract, the method of fuel oil transfer shall be included on LMV Form 414R, Fuel Oil Transfer (refer to 33 CFR 156).

The Contractor shall not commence physical work at the site until the program has been reviewed and found acceptable by the Contracting Officer, or an authorized representative. At the Contracting Officer's discretion, the Contractor may submit its Activity Hazard Analysis only for the first phase of construction provided that it is accompanied by an outline of the remaining phases of construction. All remaining phases shall be submitted and accepted prior to the beginning of work in each phase. Also refer to Section 1 of EM 385-1-1.

(End of clause)

## 3. CHANGES IN PERFORMANCE OF WORK AS NEGOTIATED.

The Contractor shall beforehand notify the Contracting Officer, in writing, of any change or substitution in utilization of a subcontractor, supplier, etc., from that which was relied on by the Government during the cost and pricing negotiation. Such notification shall include:

- 1) the name of the new subcontractor, supplier, etc.;
- 2) the work to be performed or material supplied;
- 3) the reason for the substitution and;

4) whether the Contractor's costs will remain the same, increase, or decrease as a result of the change.

This notification shall also be applicable if the change results in work to be performed or material or equipment to be supplied by the Contractor itself.

(End of clause)

- 4. COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK. The Contractor shall be required to:
  - a. commence work under this contract within 15 calendar days after the date the Contractor receives the Notice to Proceed.
  - b. prosecute said work diligently, and
- c. complete the entire work ready for use not later than <u>90</u> calendar days after the date the Contractor receives the Notice to Proceed. The time stated for completion shall include final cleanup of the premises.

(End of clause)

#### 5. CONTAMINATION OF WATER.

In addition to the requirements set forth in 01130-3.2, Protection of Water Resources, the Contractor shall take positive protective measures to prevent spillage of potential pollutant materials such as fuel, emulsion materials, chemicals etc., from storage containers or equipment, into lakes or tributary waters. Such positive protective measures may include, but not limited to, the following:

- (1) A berm enclosure of sufficient capacity to contain such materials.
- (2) Security measures to prevent acts of vandalism, which could result in spillage of such materials (fences, guards, etc.).
- (3) Storage of such materials in an area where the terrain would preclude leakage into lake or tributary waters.
- (4) Utilization of secure Government storage areas if the Contracting Officer indicates such space is available. No storage past immediate needs (2 days) without the consent of the Contracting Officer.

The Contractor shall submit its proposals for implementing the above provisions in accordance with 01130-1.5, Environmental Protection Plan.

(End of clause)

## 6. CONTRACT PERFORMANCE

During the progress of the contract, if it becomes apparent that the Contractor is unable or unwilling to perform the work in accordance with contract specifications, he will acquire additional supplies, equipment, and personnel as may be required by the Contracting Officer or his/her authorized representative to insure that the work is accomplished. If any work performed

hereunder is not in conformity with the requirements of this contract, the Government will have the right to require the Contractor to immediately take all necessary steps to insure future performance of the services in conformity with the requirements of the contract; and reduce the contract price to reflect the reduced value of the services performed. In the event the Contractor fails to promptly take necessary steps to insure future performance of the services in conformity with the requirements of the contract, the Government will have the right to either (1) by contract or otherwise have the services performed in conformity with the contract requirements and charge to the Contractor any cost occasioned by the Government that is directly related to the performance of such services; or (2) terminate this contract for default as provided in the clause of this contract entitled "Default".

(End of clause)

#### 7. CONTRACTOR USE OF SITE.

- a. <u>Right of Entry</u>. The activities of the Contractor shall not interfere with the business operations of the landowner or its lessee at the site. The Contractor's activities shall not interfere with utility service at the site. No soil or other materials excavated or otherwise removed at the site will be made via any entrance or exit of the Stone Container Property on Latty Avenue.
- b. The Contractor will have access of the site designated on the contract drawings as being within the "contract limits." Support facilities, trailers and staging areas required for completion of the work shall be contained within the designated "contract limits."
  - c. The contractor shall be responsible for the clean and orderly upkeep of the site.

(End of clause)

#### 8. DAILY INSPECTIONS.

The Contractor shall perform daily safety and radiation inspections and record them on the forms approved by the Contracting Officer. Reports of daily inspections shall be maintained at the job site. The reports shall be records of the daily inspections and resulting actions. Each report shall include, as a minimum, the following:

- a. Phase(s) of construction underway during the inspection.
- b. Locations of areas inspections were made.
- c. Results of inspection, including nature of deficiencies observed and corrective actions taken, or to be taken, date, and signature of the person responsible for its contents.

(End of clause)

#### 9. DAMAGE TO WORK.

The responsibility for damage to any part of the permanent work shall be as set forth in the Contract Clause entitled "Permits and Responsibilities." However, if in the judgment of the Contracting Officer any part of the permanent work performed by the Contractor is damaged by flood or earthquake, which damage is not due to the failure of the Contractor to take reasonable precautions or to exercise sound engineering and construction practices in the conduct of the work, the Contractor shall make the repairs as ordered by the Contracting Officer and full

compensation for such repairs will be made at the applicable contract unit or lump sum prices as fixed and established in the contract. If in the opinion of the Contracting Officer there are no contract unit or lump sum prices applicable to any part of such work, an equitable adjustment pursuant to the Contract Clause entitled, "Changes," of the contract will be made as full compensation for the repairs of that part of the permanent work for which there are no applicable contract unit or lump sum prices. Except as herein provided, damage to all work (including temporary construction), utilities, materials, equipment, and plant shall be repaired to the satisfaction of the Contracting Officer at the Contractor's expense, regardless of the cause of such damage.

(End of clause)

## 10. ENVIRONMENTAL LITIGATION.

- a. If the performance of all or any part of the work is suspended, delayed, or interrupted due to an order of a court of competent jurisdiction as a result of environmental litigation, as defined below, the Contracting Officer, at the request of the Contractor, shall determine whether the order is due in any part to the acts or omissions of the Contractor or a Subcontractor at any tier not required by the terms of this contract. If it is determined that the order is not due in any part to acts or omissions of the Contractor or a Subcontractor at any tier other than as required by the terms of this contract, such suspension, delay, or interruption shall be considered as if ordered by the Contracting Officer in the administration of this contract under the terms of the Contract Clause entitled "Suspension of Work". The period of such suspension, delay or interruption shall be considered unreasonable, and an adjustment shall be made for any increase in the cost of performance of this contract (excluding profit) as provided in that clause, subject to all the provisions thereof.
- b. The term "environmental litigation", as used herein, means a lawsuit alleging that the work will have an adverse effect on the environment or that the Government has not duly considered, either substantively or procedurally, the effect of the work on the environment.

(End of clause)

## 11. ORDER AND COORDINATION OF WORK.

The Contractor shall develop a work sequence plan, subject to the approval of the Contracting Officer that incorporates the following requirements:

- a. All required erosion, stormwater, and other water control measures shall be in place prior to initiating any stock pile removal or incidental excavation.
- b. Only the area in the immediate vicinity of the Main Pile footprint shall be considered contaminated. The Contractor shall ensure that the access road and load out pad remain clean.
- c. The Contractor is responsible for all coordination required for the transportation of the waste to the disposal facility. The Contractor shall ensure all shipments are packaged and transported in accordance with Department of Transportation Standards (49 CFR). The Contractor shall inspect gondola cars for containment integrity, ensure waste packaging is sufficient to maintain a moisture content suitable to meet the waste acceptance criteria of the disposal facility, schedule the rail cars for loading and transportation, ensure the acceptance of the waste at the disposal facility, and originate and maintain all documentation necessary for transportation to an approved disposal facility.

d. Multiple contractors will be on the site. Contractors shall coordinate with one another in order to minimize impact to their operations.

(End of clause)

#### 12. PARTNERING.

In order to most effectively accomplish this contract, the Government is willing to form a cohesive partnership with the Contractor. This partnership would strive to draw on the strengths of each organization in an effort to achieve a quality project done right the first time, within budget, and on schedule. This partnership would be bilateral in make-up and partnership will be totally voluntary. Any cost associated with effectuating this partnership will be agreed to by all parties and will be shared equally with no change in contract price.

(End of clause)

#### 13. PAY REQUESTS.

Pay requests authorized in the Contract Clause entitled "Payments", will be paid pursuant to the clause entitled "Prompt Payment". Pay requests shall be submitted on ENG Form 93 and 93a, "Payment Estimate-Contract Performance" and "Continuation", respectively. All information and substantiation required by the identified contract clauses shall be submitted with the ENG Form 93, and the required certification shall be included on the last page of the ENG Form 93a, signed by an authorized official of the Contractor and dated when signed. The designated billing office is the Office of the Area Engineer.

(End of clause)

#### 14. PHYSICAL DATA.

Data and information furnished or referred to below is furnished for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

- a. <u>Physical Conditions</u>. The indications of physical conditions on the drawings and in the specifications are the result of site investigations by surveys and borings. Information regarding these borings and other test results are available for inspection upon 48 hours notice at the Dept. of the Army, St. Louis District, Corps of Engineers, 1222 Spruce Street, St. Louis, Missouri.
- b. <u>Weather Conditions</u>. Information with respect to temperatures and precipitation may be obtained from the National Weather Service.

(End of clause)

#### 15. PROTECTION OF MATERIAL AND WORK.

The Contractor shall at all times protect and preserve all materials, supplies, and equipment of every description (including property which may be Government-furnished or owned) and all work performed. All reasonable requests of the Contracting Officer to enclose or specially protect such property shall be complied with. If, as determined by the Contracting Officer, material, equipment, supplies, and work performed are not adequately protected by the Contractor, such

property may be protected by the Government and the cost thereof may be charged to the Contractor or deducted from any payments due to the Contractor.

(End of clause)

#### REQUIRED INSURANCE - WORK ON A NON-GOVERNMENT INSTALLATION.

- a. The Contractor shall, at its own expense, provide and maintain during the entire performance period of this contact at least the kinds and minimum amounts of insurance required in the following schedule:
  - (1) Workmen's Compensation. Coverage complying with applicable State statute.
  - (2) Employer's Liability Insurance. Minimum amount of \$1 Million.
- (3) <u>Comprehensive General Liability Insurance</u>. Minimum limits of \$1 Million per occurrence for bodily injury but a limit of \$2 Million total; and \$1 Million per occurrence for property damage.
- (4) <u>Comprehensive Automobile Insurance</u>. Minimum limits of \$200,000 per person and \$500,000 per occurrence for bodily injury, and \$20,000 per occurrence for property damage.
- (5) Pollution Liability. HTRW Contractors must generally insure themselves against causing increased pollution as a result of their construction activities. This requires that they procure adequate protection in the form of pollution liability insurance. However, on some HTRW jobs funded by Environmental Protection Agency (EPA), pollution liability insurance coverage may not be required if EPA indemnifies the contract. Indemnification basically holds the Contractor harmless against liability resulting from release of a hazardous substance as a result of the construction activities for a period of 10 years. If the contract is not indemnified, a cost for pollution liability insurance must be included in the estimate (unless the premiums are reimbursed by EPA to the Contractor) to cover that portion of the project that may be subject to pollution liability. Rates for pollution liability insurance are generally on a sliding scale with smaller insurance policies requiring a greater premium percentage. Table 10-1 serves as an example of pollution liability premium costs:

Table 10-1. Pollution liability insurance cost

Contract Amount	Pollution Liability Insurance Cost (% of Contract Amount)
Up to \$1,000,000	2.0%
\$1,000,000 to \$5,000,000	1.2%
\$5,000,000 to \$15,000,000	0.8%
Over \$15,000,000	0.7%

Coverage amounts and rates periodically change and should be verified by obtaining quotes from insurance companies.

b. Within 15 days after receipt of Notice of Award and before commencing work under this contract, the Contractor shall notify the Contracting Officer in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective (1) for such period as the laws of the State in which this contract is to be performed prescribe, or (2) until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.

- c. The Contractor shall insert the substance of this clause, including this paragraph c, in subcontracts under this contract and shall require subcontractors to provide and maintain the insurance required in paragraph a above. The Contractor shall maintain a copy of all subcontractor's proofs of required insurance, and shall make copies available to the Contracting Officer upon request.
  - d. Statements of insurance should be submitted to the following address:

U.S. Army Corps of Engineers St. Louis District – FUSRAP Project Office 8945 Latty Avenue Attn: CEMVS-CO-CF Berkeley, Missouri 63134

(End of clause)

17. REQUIREMENTS OF REGULATORY AGENCIES. The Contractor at all times shall observe and comply with all Federal and State laws and regulations, and local bylaws, ordinances and regulations in any matter affecting the conduct of the work or applying to employees on the project, as well as safety precautions and orders or decrees which have been promulgated or enacted, or which may be promulgated or enacted, by legal bodies or tribunal having authority or jurisdiction over the work, materials, equipment, or employees. The duty of enforcement of all said laws or ordinances, regulations, orders or decrees lies with the body or agency promulgating them.

#### State of Missouri:

The Contractor shall conduct Work in complete compliance with all rules, regulations and requirements of the Missouri Department of Natural Resources (MDNR) and the Missouri Department of Labor and Industry.

#### **Utilities:**

If during execution of the Work, telephone, electric, television cables, gas, oil, water, sewer or communication lines are encountered, no removal shall be done around those lines without the presence of an authorized representative from the authority having jurisdiction. The Contractor shall contact the Contracting Officer if unexpected utilities are encountered.

(End of clause)

## 18. RIGHT-OF-WAY.

- a. Right-of-way for construction purposes will be furnished by the Government without cost to the Contractor. Where right-of-way for access to a work site is not available over existing public roads, access through private lands as shown on the contract drawings will be furnished by the Government without cost to the Contractor. If the right-of-way furnished for access is used, the Contractor will be required at its own expense, to do all work necessary to make such right-of-way suitable for traveling to and from the work site without interrupting the existing drainage. Upon completion of the contract work, any such access roadway and right-of-way furnished by the Government shall be left in a condition satisfactory to the Contracting Officer.
- b. The Contractor shall procure without expense to the Government all additional lands, access roads, or right-of-way necessary for its use in the performance of the work. Any

agreements or permits with levee boards, counties, or political subdivisions for moving material and equipment will also be the responsibility of the Contractor. Any delays to the Contractor resulting from delays in procuring such additional lands, access roads, right-of-way, or permits for moving material and equipment for its own use will not be made a basis of any claim for increases in the cost of performance of the work. The Contractor shall make its own investigations to determine the conditions, restrictions, and difficulties that may be encountered in the transportation of material and equipment to the work sites shown on the drawings

(End of clause)

#### 19. SAFETY AND HEALTH REQUIREMENTS MANUAL EM 385-1-1.

Safety and Health Requirements Manual EM 385-1-1, dated September 3, 1996, forms a part of these specifications.

(End of clause)

20. SUBCONTRACTS. In accordance with the Contract Clause entitled "Subcontracts", the Contractor shall, within seven days after the award of any subcontract by the Contractor or a Subcontractor, deliver to the Contracting Officer two copies of a completed Standard Form 1413. Both copies must contain the original signatures of both parties.

(End of clause)

#### 21. TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER.

- a. This provision specifies the procedure for the determination of time extensions for unusually severe weather in accordance with the Contract Clause entitled, "Default (Fixed-Price Supply and Service)". In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:
- (1) The weather experienced at the project site during the contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.
- (2) The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.
- b. The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities.

# MONTHLY ANTICIPATED ADVERSE WEATHER DELAY WORK DAYS BASED ON (5) DAY WORK WEEK

<u>JAN</u>	FEB	WAR	APR	IVIAY	JUN	JUL	AUG	SEP	001	NOV	DEC
(6)	(6)	(8)	(8)	(8)	(7)	(6)	(6)	(6)	(6)	(6)	(6)

c. Upon acknowledgement of the Notice to Proceed (NTP) and continuing throughout

the contract, the Contractor shall record on the daily CQC report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled work day. The number of actual adverse weather delay days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in paragraph b, above, the Contracting Officer will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the Contract Clause entitled "Default (Fixed Price Supply and Service)".

(End of clause)

# 52.211-11 LIQUIDATED DAMAGES--SUPPLIES, SERVICES, OR RESEARCH AND DEVELOPMENT (SEP 2000)

- (a) If the Contractor fails to deliver the supplies or perform the services within the time specified in this contract, the Contractor shall, in place of actual damages, pay to the Government liquidated damages of \$1,165.00 per calendar day of delay [Contracting Officer insert amount].
- (b) If the Government terminates this contract in whole or in part under the Default--Fixed-Price Supply and Service clause, the Contractor is liable for liquidated damages accruing until the Government reasonably obtains delivery or performance of similar supplies or services. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.
- (c) The Contractor will not be charged with liquidated damages when the delay in delivery or performance is beyond the control and without the fault or negligence of the Contractor as defined in the Default--Fixed-Price Supply and Service clause in this contract.

(End of clause)

## 52.222-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (MAY 1989)

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR Part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

# THIS STATEMENT IS FOR INFORMATION ONLY: IT IS NOT A WAGE DETERMINATION Employee Class Monetary Wage-Fringe Benefits

Heavy Equipment Operator	\$22.91
Laborer	\$13.39
Teamster	\$21.99
Engineers	\$32.70
Engineering Tech	\$24.65
Superintendent	\$32.70
Site Safety and Health Officer	\$32.70
Supervisor, Health Physics Tech/Rad Tech	\$32.70
Health Physics Tech/Rad Tech	\$24.65
Quality Control Representative	\$22.55

NOTE: U. S. Department of Labor Wage Determination Number 1994-2309 (Revision No. 23, dated 5/31/2001) is applicable to this contract and is attached at Section J.

(End of clause)

# 52.231-5000 EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE MAR 1995)--EFARS

- (a) This clause does not apply to terminations. See 52.249-5000, Basis for Settlement of Proposals and FAR Part 49.
- (b) Allowable cost for construction and marine plant and equipment in sound workable condition owned or controlled and furnished by a contractor or subcontractor at any tier shall be based on actual cost data for each piece of equipment or groups of similar serial and series for which the Government can determine both ownership and operating costs from the contractor's accounting records. When both ownership and operating costs cannot be determined for any piece of equipment or groups of similar serial or series equipment from the contractor's accounting records, costs for that equipment shall be based upon the applicable provisions of EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule, Region V. Working conditions shall be considered to be average for determining equipment rates using the schedule unless specified otherwise by the contracting officer. For equipment not included in the schedule, rates for comparable pieces of equipment may be used or a rate may be developed using the formula provided in the schedule. For forward pricing, the schedule in effect at the time of negotiations shall apply. For retroactive pricing, the schedule in effect at the time the work was performed shall apply.
- (c) Equipment rental costs are allowable, subject to the provisions of FAR 31.105(d)(ii) and FAR 31.205-36. Rates for equipment rented from an organization under common control, lease-purchase arrangements, and sale-leaseback arrangements, will be determined using the schedule, except that actual rates will be used for equipment leased from an organization under common control that has an established practice of leasing the same or similar equipment to unaffiliated lessees.
- (d) When actual equipment costs are proposed and the total amount of the pricing action exceeds the small purchase threshold, the contracting officer shall request the contractor to submit either certified cost or pricing data, or partial/limited data, as appropriate. The data shall be submitted on Standard Form 1411, Contract Pricing Proposal Cover Sheet.

(End of clause)

## 52.232-5002 CONTINUING CONTRACTS (ALTERNATE) (MAR 1995)--EFARS

- (a) Funds are not available at the inception of this contract to cover the entire contract price. The sum of \$200,000.00 has been reserved for this contract and is available for payment to the contractor during the current fiscal year. It is expected that Congress will make appropriations for future fiscal years from which additional funds, together with funds provided by one or more nonfederal project sponsors will be reserved for this contract. The liability of the United States for payments beyond the funds reserved for this contract is contingent on the reservation of additional funds.
- (b) Failure to make payments in excess of the amount currently reserved, or that may be reserved form time to time, shall not be considered a breach of this contract, and shall not entitle the contractor to a price adjustment under the terms of this contract except as specifically provided in paragraphs (e) and (h) below.

- (c) The Government may at any time reserve additional funds for payments under the contract if there are funds available for such purpose. The contracting officer will promptly notify the contractor of any additional funds reserved for the contract by issuing an administrative modification to the contract.
- (d) If earnings will be such that funds reserved for the contract will be exhausted before the end of any fiscal year, the contractor shall give written notice to the contracting officer of the estimated date of exhaustion and the amount of additional funds which will be needed to meet payments due or to become due under this contract during that fiscal year. This notice shall be given not less than 45 nor more than 60 days prior to the estimated date of exhaustion.
- (e) No payments will be make after exhaustion of funds except to the extent that additional funds are reserved for the contract. If and when sufficient additional funds are reserved, the contractor shall be entitled to simple interest on any payment that the contracting officer determines was actually earned under the terms of this contract and would have been made except for exhaustion of funds. Interest shall be computed from the time such payment would otherwise have been made until actually or constructively made, and shall be at the rate established by the Secretary of the Treasury pursuant to Public Law 92-41, 85 STAT 97, as in effect on the first day of the delay in such payment.
- (f) Any suspension, delay, or interruption of work arising from exhaustion or anticipated exhaustion of funds shall not constitute a breach of this contract and shall not entitle the contractor to any price adjustment under a "Suspension of Work" or similar clause or in any other manner under this contract.
- (g) An equitable adjustment in performance time shall be made for any increase in the time required for performance of any part of the work arising from exhaustion of funds or the reasonable anticipation of exhaustion of funds.
- (h) If, upon the expiration of sixty (60) days after the beginning of the fiscal year following an exhaustion of funds, the Government has failed to reserve sufficient additional funds to cover payments other vise due, the contractor, by written notice delivered to the contracting officer at any time before such additional funds are reserved, may elect to treat his right to proceed with the work as having been terminated. Such a ermination shall be at no cost to the Government, except that, to the extent that additional funds to make payment therefore are allocated to this contract, it may be treated as a termination for the convenience of the Government.
- (i) If at any time it becomes apparent that the funds reserved for any fiscal year are in excess of the funds required to meet all payments due or to become due the contractor because of work performed and to be performed under this contract during the fiscal year, the Government reserves the right, after notice to the contractor, to reduce said reservation by the amount of such excess.
- (j) The term "Reservation" means monies that have been set aside and made available for payments under this contract.

(End of clause)

#### 52.236-16 QUANTITY SURVEYS (APR 1984)

- (a) Quantity surveys shall be conducted, and the data derived from these surveys shall be used in computing the quantities of work performed and the actual construction completed and in place.
- (b) The Government shall conduct the original and final surveys and make the computations

based on them. The Contractor shall conduct the surveys for any periods for which progress payments are requested and shall make the computations based on these surveys. All surveys conducted by the Contractor shall be conducted under the direction of a representative of the Contracting Officer, unless the Contracting Officer waives this requirement in a specific instance.

(c) Promptly upon completing a survey, the Contractor shall furnish the originals of all field notes and all other records relating to the survey or to the layout of the work to the Contracting Officer, who shall use them as necessary to determine the amount of progress payments. The Contractor shall retain copies of all such material furnished to the Contracting Officer.

## 52,249-5000 BASIS FOR SETTLEMENT OF PROPOSALS

Actual costs will be used to determine equipment costs for a settlement proposal submitted on the total cost basis under FAR 49.206-2(b). In evaluating a terminations settlement proposal using the total cost basis, the following principles will be applied to determine allowable equipment costs:

- (1) Actual costs for each piece of equipment, or groups of similar serial or series equipment, need not be available in the contractor's accounting records to determine total actual equipment costs.
- (2) If equipment costs have been allocated to a contract using predetermined rates, those charges will be adjusted to actual costs.
- (3) Recorded job costs adjusted for unallowable expenses will be used to determine equipment operating expenses.
- (4) Ownership costs (depreciation) will be determined using the contractor's depreciation schedule (subject to the provisions of FAR 31.205-11).
- (5) License, taxes, storage and insurance costs are normally recovered as an indirect expense and unless the contractor charges these costs directly to contracts, they will be recovered through the indirect expense rate.

(End of Clause)

## 252.236-7001 CONTRACT DRAWINGS, MAPS, AND SPECIFICATIONS (AUG 2000)

- (a) The Government will provide to the Contractor, without charge, one set of contract drawings and specifications, except publications incorporated into the technical provisions by reference, in electronic or paper media as chosen by the Contracting Officer.
- (b) The Contractor shall--
- (1) Check all drawings furnished immediately upon receipt;
- (2) Compare all drawings and verify the figures before laying out the work;
- (3) Promptly notify the Contracting Officer of any discrepancies;
- (4) Be responsible for any errors that might have been avoided by complying with this paragraph (b); and
- (5) Reproduce and print contract drawings and specifications as needed.

- (c) In general--
- (1) Large-scale drawings shall govern small-scale drawings; and
- (2) The Contractor shall follow figures marked on drawings in preference to scale measurements.
- (d) Omissions from the drawings or specifications or the misdescription of details of work that are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work. The Contractor shall perform such details as if fully and correctly set forth and described in the drawings and specifications.
- (e) The work shall conform to the specifications and the contract drawings identified on the following index of drawings:

<u>Title</u>	Drawing No.
Cover Sheet	
Location Map and Index of Drawings	FU-HS-4/G-1
Existing Site Plan	FU-HS-4/C-1
Final Grading Plan	FU-HS-4/C-2
Cross Sections	FU-HS-4/C-3
Erosion Control and Miscellaneous Details	FU-HS-4/C-4

(End of clause)

# SECTION I Contract Clauses

FAR/DFARS	Clause Title	Version Date	<u>Page</u>
52.202-1	Definitions	MAR 2001	1
52.203-3	Gratuities	APR 1984	2
52.203-5	Covenant Against Contingent Fees	APR 1984	3
52.203-6	Restrictions On Subcontractor Sales To The Government	JUL 1995	3
52.203-7	Anti-Kickback Procedures	JUL 1995	4
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997	5
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997	6
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	JUN 1997	7
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000	11
52.209-6	Protecting the Government's Interest When Subcontracting With	JUL 1995	12
	Contractors Debarred, Suspended, or Proposed for Debarment		
52.215-2	Audit and RecordsNegotiation	JUN 1999	13
52.215-8	Order of PrecedenceUniform Contract Format	OCT 1997	14
52.215-10	Price Reduction for Defective Cost or Pricing Data	OCT 1997	14
52.215-12	Subcontractor Cost or Pricing Data	OCT 1997	16
52.215-15	Pension Adjustments and Asset Reversions	DEC 1998	16
52.215-18	Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions	OCT 1997	17
52.215-19	Notification of Ownership Changes	OCT 1997	17
52.219-8	Utilization of Small Business Concerns	OCT 2000	17
52.219-14	Limitations On Subcontracting	DEC 1996	19
52.222-3	Convict Labor	AUG 1996	19
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation	SEP 2000	20
52.222-26	Equal Opportunity	FEB 1999	21
52.222-35	Affirmative Action For Disabled Veterans And Veterans of the Vietnam Era	APR 1998	22
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998	24
52.222-37	Employment Reports On Disabled Veterans And Veterans Of The Vietnam Era	JAN 1999	25
52.222-41	Service Contract Act Of 1965, As Amended	MAY 1989	26
52.222-44	Fair Labor Standards And Service Contract Act - Price Adjustment	MAY 1989	32
52.223-3	Hazardous Material Identification And Material Safety Data	JAN 1997	33
52.223-5	Pollution Prevention and Right-to-Know Information	APR 1998	34
52.223-6	Drug-Free Workplace	MAR 2001	34
52.225-13	Restrictions on Certain Foreign Purchases	JUL 2000	36
52.227-1	Authorization and Consent	JUL 1995	36
52.229-4	Federal, State And Local Taxes (Noncompetitive Contract)	JAN 1991	37
52.232-1	Payments	APR 1984	38
52.232-8	Discounts For Prompt Payment	MAY 1997	38
52.232-11	Extras	APR 1984	39
52.232-17	Interest	JUN 1996	39
52.232-23	Assignment Of Claims	JAN 1986	39
52.232-25	Prompt Payment	MAR 2001	40
52.232-33	Payment by Electronic Funds TransferCentral Contractor Registration	MAY 1999	44
52.233-1	Disputes	DEC 1998	46
52.233-3	Protest After Award	AUG 1996	47

52.236-13 Alt I	Accident Prevention (Nov 1991) - Alternate I	NOV 1991	48
52.242-13	Bankruptcy	JUL 1995	49
52.243-1 Alt II	ChangesFixed-Price (Aug 1987) - Alternate II	APR 1984	49
52.244-5	Competition In Subcontracting	DEC 1996	50
52.244-6	Subcontracts for Commercial Items and Commercial Components	MAR 2001	50
52.246-25	Limitation Of LiabilityServices	FEB 1997	51
52.248-1	Value Engineering	FEB 2000	51
52.249-2	Termination For Convenience Of The Government (Fixed-Price)	SEP 1996	57
52.249-8	Default (Fixed-Price Supply & Service)	APR 1984	60
52.253-1	Computer Generated Forms	JAN 1991	61
252.201-7000	Contracting Officer's Representative	DEC 1991	62
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense- Contract-Related Felonies	MAR 1999	62
252.209-7000	Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate Range Nuclear Forces (INF) Treaty	NOV 1995	63
252.219-7009	Section 8(a) Direct Award	JUN 1998	64
252.223-7004	Drug-Free Work Force	SEP 1988	64
252.223-7006	Prohibition On Storage And Disposal Of Toxic And Hazardous Materials	APR 1993	66
252.231-7000	Supplemental Cost Principles	DEC 1991	66
252.243-7001	Pricing Of Contract Modifications	DEC 1991	66
252.243-7002	Requests for Equitable Adjustment	MAR 1998	66
252.247-7023	Transportation of Supplies by Sea	MAR 2000	67
252.247-7024	Notification Of Transportation Of Supplies By Sea	MAR 2000	70

#### SECTION I Contract Clauses

#### CLAUSES INCORPORATED BY FULL TEXT

## 52.202-1 DEFINITIONS. (MAR 2001)

- (a) Agency head or head of the agency means the Secretary (Attorney General, Administrator, Governor, Chairperson, or other chief official, as appropriate) of the agency, unless otherwise indicated, including any deputy or assistant chief official of the executive agency.
- (b) Commercial component means any component that is a commercial item.
- (c) Commercial item means--
- (1) Any item, other than real property, that is of a type customarily used for nongovernmental purposes and that--
- (i) Has been sold, leased, or licensed to the general public; or
- (ii) Has been offered for sale, lease, or license to the general public;
- (2) Any item that evolved from an item described in paragraph (c)(1) of this clause through advances in technology or performance and that is not yet available in the commercial marketplace, but will be available in the commercial marketplace in time to satisfy the delivery requirements under a Government solicitation;
- (3) Any item that would satisfy a criterion expressed in paragraphs (c)(1) or (c)(2) of this clause, but for--
- (i) Modifications of a type customarily available in the commercial marketplace; or
- (ii) Minor modifications of a type not customarily available in the commercial marketplace made to meet Federal Government requirements. "Minor" modifications means modifications that do not significantly alter the nongovernmental function or essential physical characteristics of an item or component, or change the purpose of a process. Factors to be considered in determining whether a modification is minor include the value and size of the modification and the comparative value and size of the final product. Dollar values and percentages may be used as guideposts, but are not conclusive evidence that a modification is minor;
- (4) Any combination of items meeting the requirements of paragraphs (c)(1), (2), (3), or (5) of this clause that are of a type customarily combined and sold in combination to the general public;
- (5) Installation services, maintenance services, repair services, training services, and other services if such services are procured for support of an item referred to in paragraphs (c)(1), (2), (3), or (4) of this clause, and if the source of such services--
- (i) Offers such services to the general public and the Federal Government contemporaneously and under similar terms and conditions; and
- (ii) Offers to use the same work force for providing the Federal Government with such services as the source uses for providing such services to the general public;

- (6) Services of a type offered and sold competitively in substantial quantities in the commercial marketplace based on established catalog or market prices for specific tasks performed under standard commercial terms and conditions. This does not include services that are sold based on hourly rates without an established catalog or market price for a specific service performed;
- (7) Any item, combination of items, or service referred to in subparagraphs (c)(1) through (c)(6), notwithstanding the fact that the item, combination of items, or service is transferred between or among separate divisions, subsidiaries, or affiliates of a Contractor; or
- (8) A nondevelopmental item, if the procuring agency determines the item was developed exclusively at private expense and sold in substantial quantities, on a competitive basis, to multiple State and local Governments.
- (d) Component means any item supplied to the Government as part of an end item or of another component, except that for use in 52.225-9, and 52.225-11 see the definitions in 52.225-9(a) and 52.225-11(a).
- (e) Contracting Officer means a person with the authority to enter into, administer, and/or terminate contracts and make related determinations and findings. The term includes certain authorized representatives of the Contracting Officer acting within the limits of their authority as delegated by the Contracting Officer.
- (f) Nondevelopmental item means--
- (1) Any previously developed item of supply used exclusively for governmental purposes by a Federal agency, a State or local government, or a foreign government with which the United States has a mutual defense cooperation agreement;
- (2) Any item described in paragraph (f)(1) of this definition that requires only minor modification or modifications of a type customarily available in the commercial marketplace in order to meet the requirements of the procuring department or agency; or
- (3) Any item of supply being produced that does not meet the requirements of paragraph (f)(1) or (f)(2) solely because the item is not yet in use.
- (g) Except as otherwise provided in this contract, the term "subcontracts" includes, but is not limited to, purchase orders and changes and modifications to purchase orders under this contract.

(End of clause)

#### 52.203-3 GRATUITIES (APR 1984)

- (a) The right of the Contractor to proceed may be terminated by written notice if, after notice and hearing, the agency head or a designee determines that the Contractor, its agent, or another representative--
- (1) Offered or gave a gratuity (e.g., an entertainment or gift) to an officer, official, or employee of the Government; and
- (2) Intended, by the gratuity, to obtain a contract or favorable treatment under a contract.
- (b) The facts supporting this determination may be reviewed by any court having lawful jurisdiction.

- (c) If this contract is terminated under paragraph (a) of this clause, the Government is entitled-
- (1) To pursue the same remedies as in a breach of the contract; and
- (2) In addition to any other damages provided by law, to exemplary damages of not less than 3 nor more than 10 times the cost incurred by the Contractor in giving gratuities to the person concerned, as determined by the agency head or a designee. (This subparagraph (c)(2) is applicable only if this contract uses money appropriated to the Department of Defense.)
- (d) The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.

(End of clause)

## 52.203-5 COVENANT AGAINST CONTINGENT FEES (APR 1984)

- (a) The Contractor warrants that no person or agency has been employed or retained to solicit or obtain this contract upon an agreement or understanding for a contingent fee, except a bona fide employee or agency. For breach or violation of this warranty, the Government shall have the right to annul this contract without liability or, in its discretion, to deduct from the contract price or consideration, or otherwise recover, the full amount of the contingent fee.
- (b) "Bona fide agency," as used in this clause, means an established commercial or selling agency, maintained by a contractor for the purpose of securing business, that neither exerts nor proposes to exert improper influence to solicit or obtain Government contracts nor holds itself out as being able to obtain any Government contract or contracts through improper influence.
- "Bona fide employee," as used in this clause, means a person, employed by a contractor and subject to the contractor's supervision and control as to time, place, and manner of performance, who neither exerts nor proposes to exert improper influence to solicit or obtain Government contracts nor holds out as being able to obtain any Government contract or contracts through improper influence.
- "Contingent fee," as used in this clause, means any commission, percentage, brokerage, or other fee that is contingent upon the success that a person or concern has in securing a Government contract.
- "Improper influence," as used in this clause, means any influence that induces or tends to induce a Government employee or officer to give consideration or to act regarding a Government contract on any basis other than the merits of the matter.

(End of clause)

# 52.203-6 RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (JUL 1995)

(a) Except as provided in (b) of this clause, the Contractor shall not enter into any agreement with an actual or prospective subcontractor, nor otherwise act in any manner, which has or may have the effect of restricting sales by such subcontractors directly to the Government of any item or process (including computer software) made or furnished by the subcontractor under this contract or under any follow-on production contract.

- (b) The prohibition in (a) of this clause does not preclude the Contractor from asserting rights that are otherwise authorized by law or regulation.
- (c) The Contractor agrees to incorporate the substance of this clause, including this paragraph (c), in all subcontracts under this contract which exceed \$100,000.

## 52.203-7 ANTI-KICKBACK PROCEDURES. (JUL 1995)

(a) Definitions.

"Kickback," as used in this clause, means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided, directly or indirectly, to any prime Contractor, prime Contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a subcontract relating to a prime contract.

"Person," as used in this clause, means a corporation, partnership, business association of any kind, trust, joint-stock company, or individual.

"Prime contract," as used in this clause, means a contract or contractual action entered into by the United States for the purpose of obtaining supplies, materials, equipment, or services of any kind.

"Prime Contractor," as used in this clause, means a person who has entered into a prime contract with the United States.

"Prime Contractor employee," as used in this clause, means any officer, partner, employee, or agent of a prime Contractor.

"Subcontract," as used in this clause, means a contract or contractual action entered into by a prime Contractor or subcontractor for the purpose of obtaining supplies, materials, equipment, or services of any kind under a prime contract.

"Subcontractor," as used in this clause, (1) means any person, other than the prime Contractor, who offers to furnish or furnishes any supplies, materials, equipment, or services of any kind under a prime contract or a subcontract entered into in connection with such prime contract, and (2) includes any person who offers to furnish or furnishes general supplies to the prime Contractor or a higher tier subcontractor.

"Subcontractor employee," as used in this clause, means any officer, partner, employee, or agent of a subcontractor.

- (b) The Anti-Kickback Act of 1986 (41 U.S.C. 51-58) (the Act), prohibits any person from -
- (1) Providing or attempting to provide or offering to provide any kickback;
- (2) Soliciting, accepting, or attempting to accept any kickback; or
- (3) Including, directly or indirectly, the amount of any kickback in the contract price charged by a prime Contractor to the United States or in the contract price charged by a subcontractor to a prime Contractor or higher tier subcontractor.
- (c)(1) The Contractor shall have in place and follow reasonable procedures designed to prevent and detect possible violations described in paragraph (b) of this clause in its own operations and

direct business relationships.

- (2) When the Contractor has reasonable grounds to believe that a violation described in paragraph (b) of this clause may have occurred, the Contractor shall promptly report in writing the possible violation. Such reports shall be made to the inspector general of the contracting agency, the head of the contracting agency if the agency does not have an inspector general, or the Department of Justice.
- (3) The Contractor shall cooperate fully with any Federal agency investigating a possible violation described in paragraph (b) of this clause.
- (4) The Contracting Officer may (i) offset the amount of the kickback against any monies owed by the United States under the prime contract and/or (ii) direct that the Prime Contractor withhold, from sums owed a subcontractor under the prime contract, the amount of any kickback. The Contracting Officer may order the monies withheld under subdivision (c)(4)(ii) of this clause be paid over to the Government unless the Government has already offset those monies under subdivision (c)(4)(i) of this clause. In either case, the Prime Contractor shall notify the Contracting Officer when the monies are withheld.
- (5) The Contractor agrees to incorporate the substance of this clause, including this subparagraph (c)(5) but excepting subparagraph (c)(1), in all subcontracts under this contract which exceed \$100,000.

52.203-8 CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)

- (a) If the Government receives information that a contractor or a person has engaged in conduct constituting a violation of subsection (a), (b), (c), or (d) of Section 27 of the Office of Federal Procurement Policy Act (41 U.S.C. 423) (the Act), as amended by section 4304 of the 1996 National Defense Authorization Act for Fiscal Year 1996 (Pub. L. 104-106), the Government may-
- (1) Cancel the solicitation, if the contract has not yet been awarded or issued; or
- (2) Rescind the contract with respect to which--
- (i) The Contractor or someone acting for the Contractor has been convicted for an offense where the conduct constitutes a violation of subsection 27 (a) or (b) of the Act for the purpose of either-
- (A) Exchanging the information covered by such subsections for anything of value; or
- (B) Obtaining or giving anyone a competitive advantage in the award of a Federal agency procurement contract; or
- (ii) The head of the contracting activity has determined, based upon a preponderance of the evidence, that the Contractor or someone acting for the Contractor has engaged in conduct constituting an offense punishable under subsections 27(e)(1) of the Act.
- (b) If the Government rescinds the contract under paragraph (a) of this clause, the Government is entitled to recover, in addition to any penalty prescribed by law, the amount expended under the contract.
- (c) The rights and remedies of the Government specified herein are not exclusive, and are in addition to any other rights and remedies provided by law, regulation, or under this contract.

# 52.203-10 PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)

- (a) The Government, at its election, may reduce the price of a fixed-price type contract and the total cost and fee under a cost-type contract by the amount of profit or fee determined as set forth in paragraph (b) of this clause if the head of the contracting activity or designee determines that there was a violation of subsection 27 (a), (b), or (c) of the Office of Federal Procurement Policy Act, as amended (41 U.S.C. 423), as implemented in section 3.104 of the Federal Acquisition Regulation.
- (b) The price or fee reduction referred to in paragraph (a) of this clause shall be--
- (1) For cost-plus-fixed-fee contracts, the amount of the fee specified in the contract at the time of award;
- (2) For cost-plus-incentive-fee contracts, the target fee specified in the contract at the time of award, notwithstanding any minimum fee or "fee floor" specified in the contract;
- (3) For cost-plus-award-fee contracts--
- (i) The base fee established in the contract at the time of contract award;
- (ii) If no base fee is specified in the contract, 30 percent of the amount of each award fee otherwise payable to the Contractor for each award fee evaluation period or at each award fee determination point.
- (4) For fixed-price-incentive contracts, the Government may--
- (i) Reduce the contract target price and contract target profit both by an amount equal to the initial target profit specified in the contract at the time of contract award; or
- (ii) If an immediate adjustment to the contract target price and contract target profit would have a significant adverse impact on the incentive price revision relationship under the contract, or adversely affect the contract financing provisions, the Contracting Officer may defer such adjustment until establishment of the total final price of the contract. The total final price established in accordance with the incentive price revision provisions of the contract shall be reduced by an amount equal to the initial target profit specified in the contract at the time of contract award and such reduced price shall be the total final contract price.
- (5) For firm-fixed-price contracts, by 10 percent of the initial contract price or a profit amount determined by the Contracting Officer from records or documents in existence prior to the date of the contract award.
- (c) The Government may, at its election, reduce a prime contractor's price or fee in accordance with the procedures of paragraph (b) of this clause for violations of the Act by its subcontractors by an amount not to exceed the amount of profit or fee reflected in the subcontract at the time the subcontract was first definitively priced.
- (d) In addition to the remedies in paragraphs (a) and (c) of this clause, the Government may terminate this contract for default. The rights and remedies of the Government specified herein are not exclusive, and are in addition to any other rights and remedies provided by law or under this contract.

(End of clause)

# 52.203-12 LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (JUN 1997)

(a) Definitions.

"Agency," as used in this clause, means executive agency as defined in 2.101.

"Covered Federal action," as used in this clause, means any of the following Federal actions:

- (1) The awarding of any Federal contract.
- (2) The making of any Federal grant.
- (3) The making of any Federal loan.
- (4) The entering into of any cooperative agreement.
- (5) The extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

"Indian tribe" and "tribal organization," as used in this clause, have the meaning provided in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450B) and include Alaskan Natives.

"Influencing or attempting to influence," as used in this clause, means making, with the intent to influence, any communication to or appearance before an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal action.

"Local government," as used in this clause, means a unit of government in a State and, if chartered, established, or otherwise recognized by a State for the performance of a governmental duty, including a local public authority, a special district, an intrastate district, a council of governments, a sponsor group representative organization, and any other instrumentality of a local government.

"Officer or employee of an agency," as used in this clause, includes the following individuals who are employed by an agency:

- (1) An individual who is appointed to a position in the Government under title 5, United States Code, including a position under a temporary appointment.
- (2) A member of the uniformed services, as defined in subsection 101(3), title 37, United States Code.
- (3) A special Government employee, as defined in section 202, title 18, United States Code.
- (4) An individual who is a member of a Federal advisory committee, as defined by the Federal Advisory Committee Act, title 5, United States Code, appendix 2.

"Person," as used in this clause, means an individual, corporation, company, association, authority, firm, partnership, society, State, and local government, regardless of whether such entity is operated for profit, or not for profit. This term excludes an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other Federal law.

"Reasonable compensation," as used in this clause, means, with respect to a regularly employed officer or employee of any person, compensation that is consistent with the normal compensation for such officer or employee for work that is not furnished to, not funded by, or not furnished in cooperation with the Federal Government.

"Reasonable payment," as used in this clause, means, with respect to professional and other technical services, a payment in an amount that is consistent with the amount normally paid for such services in the private sector.

"Recipient," as used in this clause, includes the Contractor and all subcontractors. This term excludes an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other Federal law.

"Regularly employed," as used in this clause, means, with respect to an officer or employee of a person requesting or receiving a Federal contract, an officer or employee who is employed by such person for at least 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person for receipt of such contract. An officer or employee who is employed by such person for less than 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person shall be considered to be regularly employed as soon as he or she is employed by such person for 130 working days.

"State," as used in this clause, means a State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, a territory or possession of the United States, an agency or instrumentality of a State, and multi-State, regional, or interstate entity having governmental duties and powers.

- (b) Prohibitions.
- (1) Section 1352 of title 31, United States Code, among other things, prohibits a recipient of a Federal contract, grant, loan, or cooperative agreement from using appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered Federal actions: the awarding of any Federal contract; the making of any Federal grant; the making of any Federal loan; the entering into of any cooperative agreement; or the modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) The Act also requires Contractors to furnish a disclosure if any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a Federal contract, grant, loan, or cooperative agreement.
- (3) The prohibitions of the Act do not apply under the following conditions:
- (i) Agency and legislative liaison by own employees.
- (A) The prohibition on the use of appropriated funds, in subparagraph (b)(1) of this clause, does not apply in the case of a payment of reasonable compensation made to an officer or employee of a person requesting or receiving a covered Federal action if the payment is for agency and legislative liaison activities not directly related to a covered Federal action.

- (B) For purposes of subdivision (b)(3)(i)(A) of this clause, providing any information specifically requested by an agency or Congress is permitted at any time.
- (C) The following agency and legislative liaison activities are permitted at any time where they are not related to a specific solicitation for any covered Federal action:
- (1) Discussing with an agency the qualities and characteristics (including individual demonstrations) of the person's products or services, conditions or terms of sale, and service capabilities.
- (2) Technical discussions and other activities regarding the application or adaptation of theperson's products or services for an agency's use.
- (D) The following agency and legislative liaison activities are permitted where they are prior to formal solicitation of any covered Federal action--
- (1) Providing any information not specifically requested but necessary for an agency to make an informed decision about initiation of a covered Federal action:
- (2) Technical discussions regarding the preparation of an unsolicited proposal prior to its official submission; and
- (3) Capability presentations by persons seeking awards from an agency pursuant to the provisions of the Small Business Act, as amended by Pub. L. 95-507, and subsequent amendments.
- (E) Only those services expressly authorized by subdivision (b)(3)(i)(A) of this clause are permitted under this clause.
- (ii) Professional and technical services.
- (A) The prohibition on the use of appropriated funds, in subparagraph (b)(1) of this clause, does not apply in the case of--
- (1) A payment of reasonable compensation made to an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action, if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action.
- (2) Any reasonable payment to a person, other than an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action if the payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action. Persons other than officers or employees of a person requesting or receiving a covered Federal action include consultants and trade associations.
- (B) For purposes of subdivision (b)(3)(ii)(A) of this clause, "professional and technical services" shall be limited to advice and analysis directly applying any professional or technical discipline. For example, drafting of a legal document accompanying a bid or proposal by a lawyer is allowable. Similarly, technical advice provided by an engineer on the performance or operational capability of a piece of equipment rendered directly in the negotiation of a contract is allowable.

However, communications with the intent to influence made by a professional (such as a licensed lawyer) or a technical person (such as a licensed accountant) are not allowable under this section unless they provide advice and analysis directly applying their professional or technical expertise and unless the advice or analysis is rendered directly and solely in the preparation, submission or negotiation of a covered Federal action. Thus, for example, communications with the intent to influence made by a lawyer that do not provide legal advice or analysis directly and solely related to the legal aspects of his or her client's proposal, but generally advocate one proposal over another are not allowable under this section because the lawyer is not providing professional legal services. Similarly, communications with the intent to influence made by an engineer providing an engineering analysis prior to the preparation or submission of a bid or proposal are not allowable under this section since the engineer is providing technical services but not directly in the preparation, submission or negotiation of a covered Federal action.

- (C) Requirements imposed by or pursuant to law as a condition for receiving a covered Federal award include those required by law or regulation and any other requirements in the actual award documents.
- (D) Only those services expressly authorized by subdivisions (b)(3)(ii)(A)(1) and (2) of this clause are permitted under this clause.
- (E) The reporting requirements of FAR 3.803(a) shall not apply with respect to payments of reasonable compensation made to regularly employed officers or employees of a person.
- (c) Disclosure.
- (1) The Contractor who requests or receives from an agency a Federal contract shall file with that agency a disclosure form, OMB standard form LLL, Disclosure of Lobbying Activities, if such person has made or has agreed to make any payment using nonappropriated funds (to include profits from any covered Federal action), which would be prohibited under subparagraph (b)(1) of this clause, if paid for with appropriated funds.
- (2) The Contractor shall file a disclosure form at the end of each calendar quarter in which there occurs any event that materially affects the accuracy of the information contained in any disclosure form previously filed by such person under subparagraph (c)(1) of this clause. An event that materially affects the accuracy of the information reported includes--
- (i) A cumulative increase of \$25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action; or
- (ii) A change in the person(s) or individual(s) influencing or attempting to influence a covered Federal action; or
- (iii) A change in the officer(s), employee(s), or Member(s) contacted to influence or attempt to influence a covered Federal action.
- (3) The Contractor shall require the submittal of a certification, and if required, a disclosure form by any person who requests or receives any subcontract exceeding \$100,000 under the Federal contract.
- (4) All subcontractor disclosure forms (but not certifications) shall be forwarded from tier to tier until received by the prime Contractor. The prime Contractor shall submit all disclosures to the Contracting Officer at the end of the calendar quarter in which the disclosure form is submitted by the subcontractor. Each subcontractor certification shall be retained in the subcontract file of the awarding Contractor.

- (d) Agreement. The Contractor agrees not to make any payment prohibited by this clause.
- (e) Penalties.
- (1) Any person who makes an expenditure prohibited under paragraph (a) of this clause or who fails to file or amend the disclosure form to be filed or amended by paragraph (b) of this clause shall be subject to civil penalties as provided for by 31 U.S.C. 1352. An imposition of a civil penalty does not prevent the Government from seeking any other remedy that may be applicable.
- (2) Contractors may rely without liability on the representation made by their subcontractors in the certification and disclosure form.
- (f) Cost allowability. Nothing in this clause makes allowable or reasonable any costs which would otherwise be unallowable or unreasonable. Conversely, costs made specifically unallowable by the requirements in this clause will not be made allowable under any other provision.

#### 52.204-4 PRINTED OR COPIED DOUBLE-SIDED ON RECYCLED PAPER (AUG 2000)

(a) Definitions. As used in this clause--

Postconsumer material means a material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item. Postconsumer material is a part of the broader category of "recovered material." For paper and paper products, postconsumer material means "postconsumer fiber" defined by the U.S. Environmental Protection Agency (EPA) as--

- (1) Paper, paperboard, and fibrous materials from retail stores, office buildings, homes, and so forth, after they have passed through their end-usage as a consumer item, including: used corrugated boxes; old newspapers; old magazines; mixed waste paper; tabulating cards; and used cordage; or
- (2) All paper, paperboard, and fibrous materials that enter and are collected from municipal solid waste; but not
- (3) Fiber derived from printers' over-runs, converters' scrap, and over-issue publications.

Printed or copied double-sided means printing or reproducing a document so that information is on both sides of a sheet of paper.

Recovered material, for paper and paper products, is defined by EPA in its Comprehensive Procurement Guideline as "recovered fiber" and means the following materials:

- (1) Postconsumer fiber; and
- (2) Manufacturing wastes such as--
- (i) Dry paper and paperboard waste generated after completion of the papermaking process (that is, those manufacturing operations up to and including the cutting and trimming of the paper machine reel into smaller rolls or rough sheets) including: envelope cuttings, bindery trimmings, and other paper and paperboard waste resulting from printing, cutting, forming, and other converting operations; bag, box, and carton manufacturing wastes; and butt rolls, mill wrappers, and rejected unused stock; and

- (ii) Repulped finished paper and paperboard from obsolete inventories of paper and paperboard manufacturers, merchants, wholesalers, dealers, printers, converters, or others.
- (b) In accordance with Section 101 of Executive Order 13101 of September 14, 1998, Greening the Government through Waste Prevention, Recycling, and Federal Acquisition, the Contractor is encouraged to submit paper documents, such as offers, letters, or reports, that are printed or copied double-sided on recycled paper that meet minimum content standards specified in Section 505 of Executive Order 13101, when not using electronic commerce methods to submit information or data to the Government.
- (c) If the Contractor cannot purchase high-speed copier paper, offset paper, forms bond, computer printout paper, carbonless paper, file folders, white wove envelopes, writing and office paper, book paper, cotton fiber paper, and cover stock meeting the 30 percent postconsumer material standard for use in submitting paper documents to the Government, it should use paper containing no less than 20 percent postconsumer material. This lesser standard should be used only when paper meeting the 30 percent postconsumer material standard is not obtainable at a reasonable price or does not meet reasonable performance standards.

52.209-6 PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (JUL 1995)

- (a) The Government suspends or debars Contractors to protect the Government's interests. The Contractor shall not enter into any subcontract in excess of the \$25,000 with a Contractor that is debarred, suspended, or proposed for debarment unless there is a compelling reason to do so.
- (b) The Contractor shall require each proposed first-tier subcontractor, whose subcontract will exceed \$25,000, to disclose to the Contractor, in writing, whether as of the time of award of the subcontract, the subcontractor, or its principles, is or is not debarred, suspended, or proposed for debarment by the Federal Government.
- (c) A corporate officer or a designee of the Contractor shall notify the Contracting Officer, in writing, before entering into a subcontract with a party that is debarred, suspended, or proposed for debarment (see FAR 9.404 for information on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs). The notice must include the following:
- (1) The name of the subcontractor.
- (2) The Contractor's knowledge of the reasons for the subcontractor being on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.
- (3) The compelling reason(s) for doing business with the subcontractor notwithstanding its inclusion on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.
- (4) The systems and procedures the Contractor has established to ensure that it is fully protecting the Government's interests when dealing with such subcontractor in view of the specific basis for the party's debarment, suspension, or proposed debarment.

(End of clause)

# 52.215-2 AUDIT AND RECORDS--NEGOTIATION (JUN 1999)

- (a) As used in this clause, "records" includes books, documents, accounting procedures and practices, and other data, regardless of type and regardless of whether such items are in written form, in the form of computer data, or in any other form.
- (b) Examination of costs. If this is a cost-reimbursement, incentive, time-and-materials, labor-hour, or price redeterminable contract, or any combination of these, the Contractor shall maintain and the Contracting Officer, or an authorized representative of the Contracting Officer, shall have the right to examine and audit all records and other evidence sufficient to reflect properly all costs claimed to have been incurred or anticipated to be incurred directly or indirectly in performance of this contract. This right of examination shall include inspection at all reasonable times of the Contractor's plants, or parts of them, engaged in performing the contract.
- (c) Cost or pricing data. If the Contractor has been required to submit cost or pricing data in connection with any pricing action relating to this contract, the Contracting Officer, or an authorized representative of the Contracting Officer, in order to evaluate the accuracy, completeness, and currency of the cost or pricing data, shall have the right to examine and audit all of the Contractor's records, including computations and projections, related to--
- (1) The proposal for the contract, subcontract, or modification;
- (2) The discussions conducted on the proposal(s), including those related to negotiating;
- (3) Pricing of the contract, subcontract, or modification; or
- (4) Performance of the contract, subcontract or modification.
- (d) Comptroller General--(1) The Comptroller General of the United States, or an authorized representative, shall have access to and the right to examine any of the Contractor's directly pertinent records involving transactions related to this contract or a subcontract hereunder.
- (2) This paragraph may not be construed to require the Contractor or subcontractor to create or maintain any record that the Contractor or subcontractor does not maintain in the ordinary course of business or pursuant to a provision of law.
- (e) Reports. If the Contractor is required to furnish cost, funding, or performance reports, the Contracting Officer or an authorized representative of the Contracting Officer shall have the right to examine and audit the supporting records and materials, for the purpose of evaluating (1) the effectiveness of the Contractor's policies and procedures to produce data compatible with the objectives of these reports and (2) the data reported.
- (f) Availability. The Contractor shall make available at its office at all reasonable times the records, materials, and other evidence described in paragraphs (a), (b), (c), (d), and (e) of this clause, for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in Subpart 4.7, Contractor Records Retention, of the Federal Acquisition Regulation (FAR), or for any longer period required by statute or by other clauses of this contract. In addition--
- (1) If this contract is completely or partially terminated, the Contractor shall make available the records relating to the work terminated until 3 years after any resulting final termination settlement; and
- (2) The Contractor shall make available records relating to appeals under the Disputes clause or

to litigation or the settlement of claims arising under or relating to this contract until such appeals, litigation, or claims are finally resolved.

- (g) The Contractor shall insert a clause containing all the terms of this clause, including this paragraph (g), in all subcontracts under this contract that exceed the simplified acquisition threshold, and--
- (1) That are cost-reimbursement, incentive, time-and-materials, labor-hour, or price-redeterminable type or any combination of these;
- (2) For which cost or pricing data are required; or
- (3) That require the subcontractor to furnish reports as discussed in paragraph (e) of this clause.

The clause may be altered only as necessary to identify properly the contracting parties and the Contracting Officer under the Government prime contract.

(End of clause)

## 52.215-8 ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT (OCT 1997)

Any inconsistency in this solicitation or contract shall be resolved by giving precedence in the following order:

- (a) The Schedule (excluding the specifications).
- (b) Representations and other instructions.
- (c) Contract clauses.
- (d) Other documents, exhibits, and attachments.
- (e) The specifications.

## 52.215-10 PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA (OCT 1997)

- (a) If any price, including profit or fee, negotiated in connection with this contract, or any cost reimbursable under this contract, was increased by any significant amount because-
- (1) The Contractor or a subcontractor furnished cost or pricing data that were not complete, accurate, and current as certified in its Certificate of Current Cost or Pricing Data;
- (2) A subcontractor or prospective subcontractor furnished the Contractor cost or pricing data that were not complete, accurate, and current as certified in the Contractor's Certificate of Current Cost or Pricing Data; or
- (3) Any of these parties furnished data of any description that were not accurate, the price or cost shall be reduced accordingly and the contract shall be modified to reflect the reduction.
- (b) Any reduction in the contract price under paragraph (a) of this clause due to defective data from a prospective subcontractor that was not subsequently awarded the subcontract shall be limited to the amount, plus applicable overhead and profit markup, by which--

- (1) The actual subcontract; or
- (2) The actual cost to the Contractor, if there was no subcontract, was less than the prospective subcontract cost estimate submitted by the Contractor; provided, that the actual subcontract price was not itself affected by defective cost or pricing data.
- (c)(1) If the Contracting Officer determines under paragraph (a) of this clause that a price or cost reduction should be made, the Contractor agrees not to raise the following matters as a defense:
- (i) The Contractor or subcontractor was a sole source supplier or otherwise was in a superior bargaining position and thus the price of the contract would not have been modified even if accurate, complete, and current cost or pricing data had been submitted.
- (ii) The Contracting Officer should have known that the cost or pricing data in issue were defective even though the Contractor or subcontractor took no affirmative action to bring the character of the data to the attention of the Contracting Officer.
- (iii) The contract was based on an agreement about the total cost of the contract and there was no agreement about the cost of each item procured under the contract.
- (iv) The Contractor or subcontractor did not submit a Certificate of Current Cost or Pricing Data.
- (2)(i) Except as prohibited by subdivision (c)(2)(ii) of this clause, an offset in an amount determined appropriate by the Contracting Officer based upon the facts shall be allowed against the amount of a contract price reduction if--
- (A) The Contractor certifies to the Contracting Officer that, to the best of the Contractor's knowledge and belief, the Contractor is entitled to the offset in the amount requested; and
- (B) The Contractor proves that the cost or pricing data were available before the "as of" date specified on its Certificate of Current Cost or Pricing Data, and that the data were not submitted before such date.
- (ii) An offset shall not be allowed if--
- (A) The understated data were known by the Contractor to be understated before the "as of" date specified on its Certificate of Current Cost or Pricing Data; or
- (B) The Government proves that the facts demonstrate that the contract price would not have increased in the amount to be offset even if the available data had been submitted before the "as of" date specified on its Certificate of Current Cost or Pricing Data.
- (d) If any reduction in the contract price under this clause reduces the price of items for which payment was made prior to the date of the modification reflecting the price reduction, the Contractor shall be liable to and shall pay the United States at the time such overpayment is repaid--
- (1) Simple interest on the amount of such overpayment to be computed from the date(s) of overpayment to the Contractor to the date the Government is repaid by the Contractor at the applicable underpayment rate effective for each quarter prescribed by the Secretary of the Treasury under 26 U.S.C. 6621(a)(2); and

A penalty equal to the amount of the overpayment, if the Contractor or subcontractor knowingly submitted cost or pricing data that were incomplete, inaccurate, or noncurrent.

# 52.215-12 SUBCONTRACTOR COST OR PRICING DATA (OCT 1997)

- (a) Before awarding any subcontract expected to exceed the threshold for submission of cost or pricing data at FAR 15.403-4, on the date of agreement on price or the date of award, whichever is later; or before pricing any subcontract modification involving a pricing adjustment expected to exceed the threshold for submission of cost or pricing data at FAR 15.403-4, the Contractor shall require the subcontractor to submit cost or pricing data (actually or by specific identification in writing), unless an exception under FAR 15.403-1 applies.
- (b) The Contractor shall require the subcontractor to certify in substantially the form prescribed in FAR 15.406-2 that, to the best of its knowledge and belief, the data submitted under paragraph (a) of this clause were accurate, complete, and current as of the date of agreement on the negotiated price of the subcontract or subcontract modification.
- (c) In each subcontract that exceeds the threshold for submission of cost or pricing data at FAR 15.403-4, when entered into, the Contractor shall insert either--
- (1) The substance of this clause, including this paragraph (c), if paragraph (a) of this clause requires submission of cost or pricing data for the subcontract; or
- (2) The substance of the clause at FAR 52.215-13, Subcontractor Cost or Pricing Data-Modifications.

# 52.215-15 PENSION ADJUSTMENTS AND ASSET REVERSIONS (DEC 1998)

- (a) The Contractor shall promptly notify the Contracting Officer in writing when it determines that it will terminate a defined-benefit pension plan or otherwise recapture such pension fund assets.
- (b) For segment closings, pension plan terminations, or curtailment of benefits, the adjustment amount shall be the amount measured, assigned, and allocated in accordance with 48 CFR 9904.413-50(c)(12) for contracts and subcontracts that are subject to Cost Accounting Standards (CAS) Board rules and regulations (48 CFR Chapter 99). For contracts and subcontracts that are not subject to CAS, the adjustment amount shall be the amount measured, assigned, and allocated in accordance with 48 CFR 9904.413-50(c)(12), except the numerator of the fraction at 48 CFR 9904.413-50(c)(12)(vi) shall be the sum of the pension plan costs allocated to all non-CAS-covered contracts and subcontracts that are subject to Federal Acquisition Regulation (FAR) Subpart 31.2 or for which cost or pricing data were submitted.
- (c) For all other situations where assets revert to the Contractor, or such assets are constructively received by it for any reason, the Contractor shall, at the Government's option, make a refund or give a credit to the Government for its equitable share of the gross amount withdrawn. The Government's equitable share shall reflect the Government's participation in pension costs through those contracts for which cost or pricing data were submitted or that are subject to FAR Subpart 31.2.
- (d) The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(g).

(End of clause)

# 52.215-18 REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS (OCT 1997)

The Contractor shall promptly notify the Contracting Officer in writing when it determines that it will terminate or reduce a PRB plan. If PRB fund assets revert, or inure, to the Contractor or are constructively received by it under a plan termination or otherwise, the Contractor shall make a refund or give a credit to the Government for its equitable share as required by FAR 31.205-6(o)(6). The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirements of FAR 15.408(j).

(End of clause)

### 52.215-19 NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)

- (a) The Contractor shall make the following notifications in writing:
- (1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.
- (2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.
- (b) The Contractor shall--
- (1) Maintain current, accurate, and complete inventory records of assets and their costs;
- (2) Provide the ACO or designated representative ready access to the records upon request;
- (3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractor's ownership changes; and
- (4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

(End of clause)

# 52.219-8 UTILIZATION OF SMALL BUSINESS CONCERNS (OCT 2000)

(a) It is the policy of the United States that small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns shall have the maximum practicable opportunity to participate in performing contracts let by any Federal agency, including contracts and subcontracts for subsystems, assemblies, components, and related services for major systems. It is further the policy of the United States that its prime contractors establish procedures to ensure the timely payment of amounts due pursuant to the terms of their subcontracts with small business concerns, veteran-owned small

business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns.

(b) The Contractor hereby agrees to carry out this policy in the awarding of subcontracts to the fullest extent consistent with efficient contract performance. The Contractor further agrees to cooperate in any studies or surveys as may be conducted by the United States Small Business Administration or the awarding agency of the United States as may be necessary to determine the extent of the Contractor's compliance with this clause.

Definitions. As used in this contract--

HUBZone small business concern means a small business concern that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.

Service-disabled veteran-owned small business concern--

- (1) Means a small business concern--
- (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and
- (ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.
- (2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

Small business concern means a small business as defined pursuant to Section 3 of the Small Business Act and relevant regulations promulgated pursuant thereto.

Small disadvantaged business concern means a small business concern that represents, as part of its offer that--

- (1) It has received certification as a small disadvantaged business concern consistent with 13 CFR part 124, subpart B;
- (2) No material change in disadvantaged ownership and control has occurred since its certification;
- (3) Where the concern is owned by one or more individuals, the net worth of each individual upon whom the certification is based does not exceed \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and
- (4) It is identified, on the date of its representation, as a certified small disadvantaged business in the database maintained by the Small Business Administration (PRO-Net).

Veteran-owned small business concern means a small business concern--

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

Women-owned small business concern means a small business concern--

- (1) That is at least 51 percent owned by one or more women, or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and
- (2) Whose management and daily business operations are controlled by one or more women.
- (d) Contractors acting in good faith may rely on written representations by their subcontractors regarding their status as a small business concern, a veteran-owned small business concern, a service-disabled veteran-owned small business concern, a HUBZone small business concern, a small disadvantaged business concern, or a women-owned small business concern.

(End of clause)

### 52.219-14 LIMITATIONS ON SUBCONTRACTING (DEC 1996)

- (a) This clause does not apply to the unrestricted portion of a partial set-aside.
- (b) By submission of an offer and execution of a contract, the Offeror/Contractor agrees that in performance of the contract in the case of a contract for--
- (1) Services (except construction). At least 50 percent of the cost of contract performance incurred for personnel shall be expended for employees of the concern.
- (2) Supplies (other than procurement from a nonmanufacturer of such supplies). The concern shall perform work for at least 50 percent of the cost of manufacturing the supplies, not including the cost of materials.
- (3) General construction. The concern will perform at least 15 percent of the cost of the contract, not including the cost of materials, with its own employees.
- (4) Construction by special trade contractors. The concern will perform at least 25 percent of the cost of the contract, not including the cost of materials, with its own employees.

#### 52.222-3 CONVICT LABOR (AUG 1996)

The Contractor agrees not to employ in the performance of this contract any person undergoing a sentence of imprisonment which has been imposed by any court of a State, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or the Trust Territory of the Pacific Islands. This limitation, however, shall not prohibit the employment by the Contractor in the performance of this contract of persons on parole or probation to work at paid employment during the term of their sentence or persons who have been pardoned or who have served their terms. Nor shall it prohibit the employment by the Contractor in the performance of this contract of persons confined for violation of the laws of any of the States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or the Trust Territory of the Pacific Islands who are authorized to work at paid employment in the community under the laws of such jurisdiction, if--

(a)(1) The worker is paid or is in an approved work training program on a voluntary basis;

- (2) Representatives of local union central bodies or similar labor union organizations have been consulted:
- (3) Such paid employment will not result in the displacement of employed workers, or be applied in skills, crafts, or trades in which there is a surplus of available gainful labor in the locality, or impair existing contracts for services; and
- (4) The rates of pay and other conditions of employment will not be less than those paid or provided for work of a similar nature in the locality in which the work is being performed; and
- (b) The Attorney General of the United States has certified that the work-release laws or regulations of the jurisdiction involved are in conformity with the requirements of Executive Order 11755, as amended by Executive Orders 12608 and 12943.

# 52.222-4 CONTRACT WORK HOURS AND SAFETY STANDARDS ACT - OVERTIME COMPENSATION. (SEP 2000)

- (a) Overtime requirements. No Contractor or subcontractor employing laborers or mechanics (see Federal Acquisition Regulation 22.300) shall require or permit them to work over 40 hours in any workweek unless they are paid at least 1 and 1/2 times the basic rate of pay for each hour worked over 40 hours.
- (b) Violation; liability for unpaid wages; liquidated damages. The responsible Contractor and subcontractor are liable for unpaid wages if they violate the terms in paragraph (a) of this clause. In addition, the Contractor and subcontractor are liable for liquidated damages payable to the Government. The Contracting Officer will assess liquidated damages at the rate of \$10 per affected employee for each calendar day on which the employer required or permitted the employee to work in excess of the standard workweek of 40 hours without paying overtime wages required by the Contract Work Hours and Safety Standards Act.
- (c) Withholding for unpaid wages and liquidated damages. The Contracting Officer will withhold from payments due under the contract sufficient funds required to satisfy any Contractor or subcontractor liabilities for unpaid wages and liquidated damages. If amounts withheld under the contract are insufficient to satisfy Contractor or subcontractor liabilities, the Contracting Officer will withhold payments from other Federal or Federally assisted contracts held by the same Contractor that are subject to the Contract Work Hours and Safety Standards Act.
- (d) Payrolls and basic records.
- (1) The Contractor and its subcontractors shall maintain payrolls and basic payroll records for all laborers and mechanics working on the contract during the contract and shall make them available to the Government until 3 years after contract completion. The records shall contain the name and address of each employee, social security number, labor classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. The records need not duplicate those required for construction work by Department of Labor regulations at 29 CFR 5.5(a)(3) implementing the Davis-Bacon Act.
- (2) The Contractor and its subcontractors shall allow authorized representatives of the Contracting Officer or the Department of Labor to inspect, copy, or transcribe records maintained under paragraph (d)(1) of this clause. The Contractor or subcontractor also shall allow authorized

representatives of the Contracting Officer or Department of Labor to interview employees in the workplace during working hours.

(e) Subcontracts. The Contractor shall insert the provisions set forth in paragraphs (a) through (d) of this clause in subcontracts exceeding \$100,000 and require subcontractors to include these provisions in any lower tier subcontracts. The Contractor shall be responsible for compliance by any subcontractor or lower-tier subcontractor with the provisions set forth in paragraphs (a) through (d) of this clause.

(End of clause)

# 52.222-26 EQUAL OPPORTUNITY (FEB 1999)

- (a) If, during any 12-month period (including the 12 months preceding the award of this contract), the Contractor has been or is awarded nonexempt Federal contracts and/or subcontracts that have an aggregate value in excess of \$10,000, the Contractor shall comply with subparagraphs (b)(1) through (11) of this clause. Upon request, the Contractor shall provide information necessary to determine the applicability of this clause.
- (b) During performing this contract, the Contractor agrees as follows:
- (1) The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. However, it shall not be a violation of this clause for the Contractor to extend a publicly announced preference in employment to Indians living on or near an Indian reservation, in connection with employment opportunities on or near an Indian reservation, as permitted by 41 CFR 60-1.5.
- (2) The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. This shall include, but not be limited to, (i) employment, (ii) upgrading, (iii) demotion, (iv) transfer, (v) recruitment or recruitment advertising, (vi) layoff or termination, (vii) rates of pay or other forms of compensation, and (viii) selection for training, including apprenticeship.
- (3) The Contractor shall post in conspicuous places available to employees and applicants for employment the notices to be provided by the Contracting Officer that explain this clause.
- (4) The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
- (5) The Contractor shall send, to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, the notice to be provided by the Contracting Officer advising the labor union or workers' representative of the Contractor's commitments under this clause, and post copies of the notice in conspicuous places available to employees and applicants for employment.
- (6) The Contractor shall comply with Executive Order 11246, as amended, and the rules, regulations, and orders of the Secretary of Labor.
- (7) The Contractor shall furnish to the contracting agency all information required by Executive Order 11246, as amended, and by the rules, regulations, and orders of the Secretary of Labor. The Contractor shall also file Standard Form 100 (EEO-1), or any successor form, as prescribed in 41 CFR part 60-1. Unless the Contractor has filed within the 12 months preceding the date of

contract award, the Contractor shall, within 30 days after contract award, apply to either the regional Office of Federal Contract Compliance Programs (OFCCP) or the local office of the Equal Employment Opportunity Commission for the necessary forms.

- (8) The Contractor shall permit access to its premises, during normal business hours, by the contracting agency or the OFCCP for the purpose of conducting on-site compliance evaluations and complaint investigations. The Contractor shall permit the Government to inspect and copy any books, accounts, records (including computerized records), and other material that may be relevant to the matter under investigation and pertinent to compliance with Executive Order 11246, as amended, and rules and regulations that implement the Executive Order.
- (9) If the OFCCP determines that the Contractor is not in compliance with this clause or any rule, regulation, or order of the Secretary of Labor, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts, under the procedures authorized in Executive Order 11246, as amended. In addition, sanctions may be imposed and remedies invoked against the Contractor as provided in Executive Order 11246, as amended; in the rules, regulations, and orders of the Secretary of Labor; or as otherwise provided by law.
- (10) The Contractor shall include the terms and conditions of subparagraphs (b)(1) through (11) of this clause in every subcontract or purchase order that is not exempted by the rules, regulations, or orders of the Secretary of Labor issued under Executive Order 11246, as amended, so that these terms and conditions will be binding upon each subcontractor or vendor.
- (11) The Contractor shall take such action with respect to any subcontract or purchase order as the contracting officer may direct as a means of enforcing these terms and conditions, including sanctions for noncompliance; provided, that if the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of any direction, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.
- (c) Notwithstanding any other clause in this contract, disputes relative to this clause will be governed by the procedures in 41 CFR 60-1.1.

52.222-35 AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA (APR 1998)

(a) ) Definitions. As used in this clause--

All employment openings includes all positions except executive and top management, those positions that will be filled from within the contractor's organization, and positions lasting 3 days or less. This term includes full-time employment, temporary employment of more than 3 days' duration, and part-time employment.

Appropriate office of the State employment service system means the local office of the Federal-State national system of public employment offices with assigned responsibility to serve the area where the employment opening is to be filled, including the District of Columbia, Guam, the Commonwealth of Puerto Rico, and the Virgin Islands.

Positions that will be filled from within the Contractor's organization means employment openings for which no consideration will be given to persons outside the Contractor's organization (including any affiliates, subsidiaries, and parent companies) and includes any openings that the Contractor proposes to fill from regularly established "recall" lists. The exception does not apply to a particular opening once an employer decides to consider applicants outside of its organization.

Veteran of the Vietnam era means a person who--

- (1) Served on active duty for a period of more than 180 days, any part of which occurred between August 5, 1964, and May 7, 1975, and was discharged or released therefrom with other than a dishonorable discharge; or
- (2) Was discharged or released from active duty for a service-connected disability if any part of such active duty was performed between August 5, 1964, and May 7, 1975.
- (b) General. (1) Regarding any position for which the employee or applicant for employment is qualified, the Contractor shall not discriminate against the individual because the individual is a disabled veteran or a veteran of the Vietnam era. The Contractor agrees to take affirmative action to employ, advance in employment, and otherwise treat qualified disabled veterans and veterans of the Vietnam era without discrimination based upon their disability or veterans' status in all employment practices such as--
- (i) Employment;
- (ii) Upgrading;
- (iii) Demotion or transfer;
- (iv) Recruitment;
- (v) Advertising;
- (vi) Layoff or termination;
- (vii) Rates of pay or other forms of compensation; and
- (viii) Selection for training, including apprenticeship.
- (2) The Contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor (Secretary) issued under the Vietnam Era Veterans' Readjustment Assistance Act of 1972 (the Act), as amended.
- (c) Listing openings. (1) The Contractor agrees to list all employment openings existing at contract award or occurring during contract performance, at an appropriate office of the State employment service system in the locality where the opening occurs. These openings include those occurring at any Contractor facility, including one not connected with performing this contract. An independent corporate affiliate is exempt from this requirement.
- (2) State and local government agencies holding Federal contracts of \$10,000 or more shall also list all their employment openings with the appropriate office of the State employment service.
- (3) The listing of employment openings with the State employment service system is required at least concurrently with using any other recruitment source or effort and involves the obligations of placing a bona fide job order, including accepting referrals of veterans and nonveterans. This listing does not require hiring any particular job applicant or hiring from any particular group of job applicants and is not intended to relieve the Contractor from any requirements of Executive orders or regulations concerning nondiscrimination in employment.
- (4) Whenever the Contractor becomes contractually bound to the listing terms of this clause, it shall advise the State employment service system, in each State where it has establishments, of

the name and location of each hiring location in the State. As long as the Contractor is contractually bound to these terms and has so advised the State system, it need not advise the State system of subsequent contracts. The Contractor may advise the State system when it is no longer bound by this contract clause.

- (d) Applicability. This clause does not apply to the listing of employment openings that occur and are filled outside the 50 States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, and the Virgin Islands.
- (e) Postings. (1) The Contractor agrees to post employment notices stating (i) the Contractor's obligation under the law to take affirmative action to employ and advance in employment qualified disabled veterans and veterans of the Vietnam era, and (ii) the rights of applicants and employees.
- (2) These notices shall be posted in conspicuous places that are available to employees and applicants for employment. They shall be in a form prescribed by the Deputy Assistant Secretary for Federal Contract Compliance Programs, Department of Labor (Deputy Assistant Secretary), and provided by or through the Contracting Officer.
- (3) The Contractor shall notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the Contractor is bound by the terms of the Act, and is committed to take affirmative action to employ, and advance in employment, qualified disabled veterans and veterans of the Vietnam Era.
- (f) Noncompliance. If the Contractor does not comply with the requirements of this clause, appropriate actions may be taken under the rules, regulations, and relevant orders of the Secretary issued pursuant to the Act.
- (g) Subcontracts. The Contractor shall include the terms of this clause in every subcontract or purchase order of \$10,000 or more unless exempted by rules, regulations, or orders of the Secretary. The Contractor shall act as specified by the Deputy Assistant Secretary to enforce the terms, including action for noncompliance.

(End of clause)

### 52.222-36 AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES (JUN 1998)

- (a) General. (1) Regarding any position for which the employee or applicant for employment is qualified, the Contractor shall not discriminate against any employee or applicant because of physical or mental disability. The Contractor agrees to take affirmative action to employ, advance in employment, and otherwise treat qualified individuals with disabilities without discrimination based upon their physical or mental disability in all employment practices such as--
- (i) Recruitment, advertising, and job application procedures;
- (ii) Hiring, upgrading, promotion, award of tenure, demotion, transfer, layoff, termination, right of return from layoff, and rehiring;
- (iii) Rates of pay or any other form of compensation and changes in compensation;
- (iv) Job assignments, job classifications, organizational structures, position descriptions, lines of progression, and seniority lists;
- (v) Leaves of absence, sick leave, or any other leave;

- (vi) Fringe benefits available by virtue of employment, whether or not administered by the Contractor;
- (vii) Selection and financial support for training, including apprenticeships, professional meetings, conferences, and other related activities, and selection for leaves of absence to pursue training;
- (viii) Activities sponsored by the Contractor, including social or recreational programs; and
- (ix) Any other term, condition, or privilege of employment.
- (2) The Contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor (Secretary) issued under the Rehabilitation Act of 1973 (29 U.S.C. 793) (the Act), as amended.
- (b) Postings. (1) The Contractor agrees to post employment notices stating--
- (i) The Contractor's obligation under the law to take affirmative action to employ and advance in employment qualified individuals with disabilities; and
- (ii) The rights of applicants and employees.
- (2) These notices shall be posted in conspicuous places that are available to employees and applicants for employment. The Contractor shall ensure that applicants and employees with disabilities are informed of the contents of the notice (e.g., the Contractor may have the notice read to a visually disabled individual, or may lower the posted notice so that it might be read by a person in a wheelchair). The notices shall be in a form prescribed by the Deputy Assistant Secretary for Federal Contract Compliance of the U.S. Department of Labor (Deputy Assistant Secretary) and shall be provided by or through the Contracting Officer.
- (3) The Contractor shall notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the Contractor is bound by the terms of Section 503 of the Act and is committed to take affirmative action to employ, and advance in employment, qualified individuals with physical or mental disabilities.
- (c) Noncompliance. If the Contractor does not comply with the requirements of this clause, appropriate actions may be taken under the rules, regulations, and relevant orders of the Secretary issued pursuant to the Act.
- (d) Subcontracts. The Contractor shall include the terms of this clause in every subcontract or purchase order in excess of \$10,000 unless exempted by rules, regulations, or orders of the Secretary. The Contractor shall act as specified by the Deputy Assistant Secretary to enforce the terms, including action for noncompliance.

# 52.222-37 EMPLOYMENT REPORTS ON DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA (JAN 1999)

- (a) Unless the Contractor is a State or local government agency, the Contractor shall report at least annually, as required by the Secretary of Labor, on--
- (1) The number of disabled veterans and the number of veterans of the Vietnam era in the workforce of the contractor by job category and hiring location; and

- (2) The total number of new employees hired during the period covered by the report, and of that total, the number of disabled veterans, and the number of veterans of the Vietnam era.
- (b) The above items shall be reported by completing the form entitled "Federal Contractor Veterans' Employment Report VETS-100."
- (c) Reports shall be submitted no later than September 30 of each year beginning September 30, 1988.
- (d) The employment activity report required by paragraph (a)(2) of this clause shall reflect total hires during the most recent 12-month period as of the ending date selected for the employment profile report required by paragraph (a)(1) of this clause. Contractors may select an ending date: (1) As of the end of any pay period during the period January through March 1st of the year the report is due, or (2) as of December 31, if the contractor has previous written approval from the Equal Employment Opportunity Commission to do so for purposes of submitting the Employer Information Report EEO-1 (Standard Form 100).
- (e) The count of veterans reported according to paragraph (a) of this clause shall be based on voluntary disclosure. Each Contractor subject to the reporting requirements at 38 U.S.C. 4212 shall invite all disabled veterans and veterans of the Vietnam era who wish to benefit under the affirmative action program at 38 U.S.C. 4212 to identify themselves to the Contractor. The invitation shall state that the information is voluntarily provided; that the information will be kept confidential; that disclosure or refusal to provide the information will not subject the applicant or employee to any adverse treatment; and that the information will be used only in accordance with the regulations promulgated under 38 U.S.C. 4212.
- (f) Subcontracts. The Contractor shall include the terms of this clause in every subcontract or purchase order of \$10,000 or more unless exempted by rules, regulations, or orders of the Secretary.

# 52.222-41 SERVICE CONTRACT ACT OF 1965, AS AMENDED (MAY 1989)

(a) Definitions. "Act," as used in this clause, means the Service Contract Act of 1965, as amended (41 U.S.C. 351, et seq.).

"Contractor," as used in this clause or in any subcontract, shall be deemed to refer to the subcontractor, except in the term "Government Prime Contractor."

- "Service employee," as used in this clause, means any person engaged in the performance of this contract other than any person employed in a bona fide executive, administrative, or professional capacity, as these terms are defined in Part 541 of Title 29, Code of Federal Regulations, as revised. It includes all such persons regardless of any contractual relationship that may be alleged to exist between a Contractor or subcontractor and such persons.
- (b) Applicability. This contract is subject to the following provisions and to all other applicable provisions of the Act and regulations of the Secretary of Labor (29 CFR Part 4). This clause does not apply to contracts or subcontracts administratively exempted by the Secretary of Labor or exempted by 41 U.S.C. 356, as interpreted in Subpart C of 29 CFR Part 4.
- (c) Compensation. (1) Each service employee employed in the performance of this contract by the Contractor or any subcontractor shall be paid not less than the minimum monetary wages and

shall be furnished fringe benefits in accordance with the wages and fringe benefits determined by the Secretary of Labor, or authorized representative, as specified in any wage determination attached to this contract.

- (2)(i) If a wage determination is attached to this con-tract, the Contractor shall classify any class of service employee which is not listed therein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination) so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed class of employees shall be paid the monetary wages and furnished the fringe benefits as are determined pursuant to the procedures in this paragraph (c).
- (ii) This conforming procedure shall be initiated by the Contractor prior to the performance of contract work by the unlisted class of employee. The Contractor shall submit Standard Form (SF) 1444, Request For Authorization of Additional Classification and Rate, to the Contracting Officer no later than 30 days after the unlisted class of employee performs any contract work. The Contracting Officer shall review the proposed classification and rate and promptly submit the completed SF 1444 (which must include information regarding the agreement or disagreement of the employees' authorized representatives or the employees themselves together with the agency recommendation), and all pertinent informa-tion to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor. The Wage and Hour Division will approve, modify, or disapprove the action or render a final determination in the event of disagreement within 30 days of receipt or will notify the Contracting Officer within 30 days of receipt that additional time is necessary.
- (iii) The final determination of the conformance action by the Wage and Hour Division shall be transmitted to the Contracting Officer who shall promptly notify the Contractor of the action taken. Each affected employee shall be furnished by the Contractor with a written copy of such determination or it shall be posted as a part of the wage determination.
- (iv)(A) The process of establishing wage and fringe benefit rates that bear a reasonable relationship to those listed in a wage determination cannot be reduced to any single formula. The approach used may vary from wage determination to wage determination depending on the circumstances. Standard wage and salary administration practices which rank various job classifications by pay grade pursuant to point schemes or other job factors may, for example, be relied upon. Guidance may also be obtained from the way different jobs are rated under Federal pay systems (Federal Wage Board Pay System and the General Schedule) or from other wage determina- tions issued in the same locality. Basic to the establishment of any conformable wage rate(s) is the concept that a pay
- relationship should be maintained between job classifications based on the skill required and the duties performed.
- (B) In the case of a contract modification, an exercise of an option, or extension of an existing contract, or in any other case where a Contractor succeeds a contract under which the classification in question was previously conformed pursuant to paragraph (c) of this clause, a new conformed wage rate and fringe benefits may be assigned to the conformed classification by indexing (i.e., adjusting) the previous conformed rate and fringe benefits by an amount equal to the average (mean) percentage increase (or decrease, where appropriate) between the wages and fringe benefits specified for all classifications to be used on the contract which are listed in the current wage determination, and those specified for the corresponding classifications in the previously applicable wage determination. Where conforming actions are accomplished in accordance with this paragraph prior to the performance of contract work by the unlisted class of employees, the Contractor shall advise the Contracting Officer of the action taken but the other procedures in subdivision (c)(2)(ii) of this clause need not be followed.

- (C) No employee engaged in performing work on this contract shall in any event be paid less than the currently applicable minimum wage specified under section 6(a)(1) of the Fair Labor Standards Act of 1938, as amended.
- (v) The wage rate and fringe benefits finally determined under this subparagraph (c)(2) of this clause shall be paid to all employees performing in the classification from the first day on which contract work is performed by them in the classification. Failure to pay the unlisted employees the compensation agreed upon by the interested parties and/or finally determined by the Wage and Hour Division retroactive to the date such class of employees commenced contract work shall be a violation of the Act and this contract.
- (vi) Upon discovery of failure to comply with subparagraph (c)(2) of this clause, the Wage and Hour Division shall make a final determination of conformed classification, wage rate, and/or fringe benefits which shall be retroactive to the date such class or classes of employees commenced contract work.
- (3) Adjustment of Compensation. If the term of this contract is more than 1 year, the minimum monetary wages and fringe benefits required to be paid or fur- nished thereunder to service employees under this contract shall be subject to adjustment after 1 year and not less often than once every 2 years, under wage determinations issued by the Wage and Hour Division.
- (d) Obligation to Furnish Fringe Benefits. The Contractor or subcontractor may discharge the obligation to furnish fringe benefits specified in the attachment or determined under subparagraph (c)(2) of this clause by furnishing equivalent combinations of bona fide fringe benefits, or by making equivalent or differential cash payments, only in accordance with Subpart D of 29 CFR Part 4.
- (e) Minimum Wage. In the absence of a minimum wage attachment for this contract, neither the Contractor nor any subcontractor under this contract shall pay any person performing work under this contract (regardless of whether the person is a service employee) less than the minimum wage specified by section 6(a)(1) of the Fair Labor Standards Act of 1938. Nothing in this clause shall relieve the Contractor or any subcontractor of any other obligation under law or contract for payment of a higher wage to any employee.
- (f) Successor Contracts. If this contract succeeds a contract subject to the Act under which substantially the same services were furnished in the same locality and service employees were paid wages and fringe benefits provided for in a collective bargaining agreement, in the absence of the minimum wage attachment for this contract setting forth such collectively bargained wage rates and fringe benefits, neither the Contractor nor any subcontractor under this contract shall pay any service employee performing any of the contract work (regardless of whether or not such employee was employed under the predecessor contract), less than the wages and fringe benefits provided for in such collective bargaining agreement, to which such employee would have been entitled if employed under the predecessor contract, including accrued wages and fringe benefits and any prospective increases in wages and fringe benefits provided for under such agreement. No Contractor or subcontractor under this contract may be relieved of the foregoing obligation unless the limitations of 29 CFR 4.1b(b) apply or unless the Secretary of Labor or the Secretary's authorized representative finds, after a hearing as provided in 29 CFR 4.10 that the wages and/or fringe benefits provided for in such agreement are substantially at variance with those which prevail for services of a character similar in the locality, or determines, as provided in 29 CFR 4.11, that the collective bargaining agreement applicable to service employees employed under the predecessor contract was not entered into as a result of arm's length negotiations. Where it is found in accordance with the review procedures provided in 29 CFR 4.10 and/or 4.11 and Parts 6 and 8 that some or all of the wages and/or fringe benefits contained in a predecessor Contractor's collective bargaining agreement are substantially at variance with those which prevail for services of a character similar in the locality, and/or that the

collective bargaining agreement applicable to service employees employed under the predecessor contract was not entered into as a result of arm's length negotiations, the Department will issue a new or revised wage determination setting forth the applicable wage rates and fringe benefits. Such determination shall be made part of the contract or subcontract, in accordance with the decision of the Administrator, the Administrative Law Judge, or the Board of Service Contract Appeals, as the case may be, irrespective of whether such issuance occurs prior to or after the award of a contract or subcontract (53 Comp. Gen. 401 (1973)). In the case of a wage determination issued solely as a result of a finding of substantial variance, such determination shall be effective as of the date of the final administrative decision.

- (g) Notification to Employees. The Contractor and any subcontractor under this contract shall notify each service employee commencing work on this contract of the minimum monetary wage and any fringe benefits required to be paid pursuant to this contract, or shall post the wage determination attached to this contract. The poster provided by the Department of Labor (Publication WH 1313) shall be posted in a prominent and accessible place at the worksite. Failure to comply with this requirement is a violation of section 2(a)(4) of the Act and of this contract.
- (h) Safe and Sanitary Working Conditions. The Contractor or subcontractor shall not permit any part of the services called for by this contract to be performed in buildings or surroundings or under working conditions provided by or under the control or supervision of the Contractor or subcontractor which are unsanitary, hazardous, or dangerous to the health or safety of the service employees. The Contractor or subcontractor shall comply with the safety and health standards applied under 29 CFR Part 1925.
- (i) Records. (1) The Contractor and each subcontractor performing work subject to the Act shall make and maintain for 3 years from the completion of the work, and make them available for inspection and transcription by authorized representatives of the Wage and Hour Division, Employment Standards Administration, a record of the following:
- (i) For each employee subject to the Act--
- (A) Name and address and social security number;
- (B) Correct work classification or classifications, rate or rates of monetary wages paid and fringe benefits provided, rate or rates of payments in lieu of fringe benefits, and total daily and weekly compensation;
- (C) Daily and weekly hours worked by each employee; and
- (D) Any deductions, rebates, or refunds from the total daily or weekly compensation of each employee.
- (ii) For those classes of service employees not included in any wage determination attached to this contract, wage rates or fringe benefits determined by the interested parties or by the Administrator or authorized representative under the terms of paragraph (c) of this clause. A copy of the report required by subdivision (c)(2)(ii) of this clause will fulfill this requirement.
- (iii) Any list of the predecessor Contractor's employees which had been furnished to the Contractor as prescribed by paragraph (n) of this clause.
- (2) The Contractor shall also make available a copy of this contract for inspection or transcription by authorized representatives of the Wage and Hour Division.
- (3) Failure to make and maintain or to make available these records for inspection and

transcription shall be a violation of the regulations and this contract, and in the case of failure to produce these records, the Contracting Officer, upon direction of the Department of Labor and notification to the Contractor, shall take action to cause suspension of any further payment or advance of funds until the violation ceases.

- (4) The Contractor shall permit authorized representatives of the Wage and Hour Division to conduct interviews with employees at the worksite during normal working hours.
- (j) Pay Periods. The Contractor shall unconditionally pay to each employee subject to the Act all wages due free and clear and without subsequent deduction (except as otherwise provided by law or regulations, 29 CFR Part 4), rebate, or kickback on any account. These payments shall be made no later than one pay period following the end of the regular pay period in which the wages were earned or accrued. A pay period under this Act may not be of any duration longer than semi-monthly.
- (k) Withholding of Payments and Termination of Contract. The Contracting Officer shall withhold or cause to be withheld from the Government Prime Contractor under this or any other Government contract with the Prime Contractor such sums as an appropriate official of the Department of Labor requests or such sums as the Contracting Officer decides may be necessary to pay underpaid employees employed by the Contractor or subcontractor. In the event of failure to pay any employees subject to the Act all or part of the wages or fringe benefits due under the Act, the Contracting Officer may, after authorization or by direction of the Department of Labor and written notification to the Contractor, take action to cause suspension of any further payment or advance of funds until such violations have ceased. Additionally, any failure to comply with the requirements of this clause may be grounds for termination of the right to proceed with the contract work. In such event, the Government may enter into other contracts or arrangements for completion of the work, charging the Contractor in default with any additional cost.
- (I) Subcontracts. The Contractor agrees to insert this clause in all subcontracts subject to the Act.
- (m) Collective Bargaining Agreements Applicable to Service Employees. If wages to be paid or fringe benefits to be furnished any service employees employed by the Government Prime Contractor or any subcontractor under the contract are provided for in a collective bargaining agreement which is or will be effective during any period in which the contract is being performed, the Government Prime Contractor shall report such fact to the Contracting Officer, together with full information as to the application and accrual of such wages and fringe benefits, including any prospective increases, to service employees engaged in work on the contract, and a copy of the collective bargaining agreement. Such report shall be made upon commencing performance of the contract, in the case of collective bargaining agreements effective at such time, and in the case of such agreements or provisions or amendments thereof effective at a later time during the period of contract performance such agreements shall be reported promptly after negotiation thereof.
- (n) Seniority List. Not less than 10 days prior to completion of any contract being performed at a Federal facility where service employees may be retained in the performance of the succeeding contract and subject to a wage determination which contains vacation or other benefit provisions based upon length of service with a Contractor (predecessor) or successor (29 CFR 4.173), the incumbent Prime Contractor shall furnish the Contracting Officer a certified list of the names of all service employees on the Contractor's or subcontractor's payroll during the last month of contract performance. Such list shall also contain anniversary dates of employment on the contract either with the current or predecessor Contractors of each such service employee. The Contracting Officer shall turn over such list to the successor Contractor at the commencement of the succeeding contract.

- (o) Rulings and Interpretations. Rulings and interpretations of the Act are contained in Regulations, 29 CFR Part 4.
- (p) Contractor's Certification. (1) By entering into this contract, the Contractor (and officials thereof) certifies that neither it (nor he or she) nor any person or firm who has a substantial interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of the sanctions imposed under section 5 of the Act.
- (2) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract under section 5 of the Act.
- (3) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.
- (q) Variations, Tolerances, and Exemptions Involving Employment. Notwithstanding any of the provisions in paragraphs (b) through (o) of this clause, the following employees may be employed in accordance with the following variations, tolerances, and exemptions, which the Secretary of Labor, pursuant to section 4(b) of the Act prior to its amendment by Pub. L. 92-473, found to be necessary and proper in the public interest or to avoid serious impairment of the conduct of Government business:
- (1) Apprentices, student-learners, and workers whose earning capacity is impaired by age, physical or mental deficiency, or injury may be employed at wages lower than the minimum wages otherwise required by section 2(a)(1) or 2(b)(1) of the Act without diminishing any fringe benefits or cash payments in lieu thereof required under section 2(a)(2) of the Act, in accordance with the conditions and procedures prescribed for the employment of apprentices, student-learners, handicapped persons, and handicapped clients of sheltered workshops under section 14 of the Fair Labor Standards Act of 1938, in the regulations issued by the Administrator (29 CFR Parts 520, 521, 524, and 525).
- (2) The Administrator will issue certificates under the Act for the employment of apprentices, student-learners, handicapped persons, or handicapped clients of sheltered workshops not subject to the Fair Labor Standards Act of 1938, or subject to different minimum rates of pay under the two acts, authorizing appropriate rates of minimum wages (but without changing requirements concerning fringe benefits or supplementary cash payments in lieu thereof), applying procedures prescribed by the applicable regulations issued under the Fair Labor Standards Act of 1938 (29 CFR Parts 520, 521, 524, and 525).
- (3) The Administrator will also withdraw, annul, or cancel such certificates in accordance with the regulations in 29 CFR Parts 525 and 528.
- (r) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed and individually registered in a bona fide apprenticeship program registered with a State Apprenticeship Agency which is recognized by the U.S. Department of Labor, or if no such recognized agency exists in a State, under a program registered with the Bureau of Apprenticeship and Training, Employment and Training Administration, U.S. Department of Labor. Any employee who is not registered as an apprentice in an approved program shall be paid the wage rate and fringe benefits contained in the applicable wage determination for the journeyman classification of work actually performed. The wage rates paid apprentices shall not be less than the wage rate for their level of progress set forth in the registered program, expressed as the appropriate percentage of the journeyman's rate contained in the applicable wage determination. The allowable ratio of apprentices to journeymen employed on the contract work in any craft classification shall not be greater than the ratio permitted to the Contractor as to his entire work force under the registered program.

- (s) Tips. An employee engaged in an occupation in which the employee customarily and regularly receives more than \$30 a month in tips may have the amount of these tips credited by the employer against the minimum wage required by section 2(a)(1) or section 2(b)(1) of the Act, in accordance with section 3(m) of the Fair Labor Standards Act and Regulations, 29 CFR Part 531. However, the amount of credit shall not exceed \$1.34 per hour beginning January 1, 1981. To use this provision--
- (1) The employer must inform tipped employees about this tip credit allowance before the credit is utilized:
- (2) The employees must be allowed to retain all tips (individually or through a pooling arrangement and regardless of whether the employer elects to take a credit for tips received);
- (3) The employer must be able to show by records that the employee receives at least the applicable Service Contract Act minimum wage through the combination of direct wages and tip credit; and
- (4) The use of such tip credit must have been permitted under any predecessor collective bargaining agreement applicable by virtue of section 4(c) of the Act.

Disputes Concerning Labor Standards. The U.S. Department of Labor has set forth in 29 CFR Parts 4, 6, and 8 procedures for resolving disputes concerning labor standards requirements. Such disputes shall be resolved in accordance with those procedures and not the Disputes clause of this contract. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

(End of clause)

# 52.222-44 FAIR LABOR STANDARDS ACT AND SERVICE CONTRACT ACT--PRICE ADJUSTMENT (MAY 1989)

- (a) This clause applies to both contracts subject to area prevailing wage determinations and contracts subject to Contractor collective bargaining agreements.
- (b) The Contractor warrants that the prices in this contract do not include any allowance for any contingency to cover increased costs for which adjustment is provided under this clause.
- (c) The contract price or contract unit price labor rates will be adjusted to reflect increases or decreases by the Contractor in wages and fringe benefits to the extent that these increases or decreases are made to comply with--
- (1) An increased or decreased wage determination applied to this contract by operation of law; or
- (2) An amendment to the Fair Labor Standards Act of 1938 that is enacted subsequent to award of this contract, affects the minimum wage, and becomes applicable to this contract under law.
- (d) Any such adjustment will be limited to increases or decreases in wages and fringe benefits as described in paragraph (b) of this clause, and to the accompanying increases or decreases in social security and unemployment taxes and workers' compensation insurance; it shall not otherwise include any amount for general and administrative costs, overhead, or profit.
- (e) The Contractor shall notify the Contracting Officer of any increase claimed under this clause within 30 days after the effective date of the wage change, unless this period is extended by the

Contracting Officer in writing. The Contractor shall promptly notify the Contracting Officer of any decrease under this clause, but nothing in the clause shall preclude the Government from asserting a claim within the period permitted by law. The notice shall contain a statement of the amount claimed and any relevant supporting data that the Contracting Officer may reasonably require. Upon agreement of the parties, the contract price or contract unit price labor rates shall be modified in writing. The Contractor shall continue performance pending agreement on or determination of any such adjustment and its effective date.

(f) The Contracting Officer or an authorized representative shall, until the expiration of 3 years after final payment under the contract, have access to and the right to examine any directly pertinent books, documents, papers, and records of the Contractor.

(End of clause)

# 52.223-3 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (JAN 1997)

- (a) "Hazardous material", as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).
- (b) The offeror must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

<u>Material</u>	Identification No.
(If none, insert "None")	

- (c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.
- (d) The apparently successful offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful offeror being considered nonresponsible and ineligible for award.
- (e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.
- (f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or

subcontractor personnel or property.

- (g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.
- (h) The Government's rights in data furnished under this contract with respect to hazardous material are as follows:
- (1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to--
- (i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;
- (ii) Obtain medical treatment for those affected by the material; and
- (iii) Have others use, duplicate, and disclose the data for the Government for these purposes.
- (2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.
- (3) The Government is not precluded from using similar or identical data acquired from other sources.

(End of clause)

### 52.223-5 POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (APR 1998)

- (a) Executive Order 12856 of August 3, 1993, requires Federal facilities to comply with the provisions of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA)(42 U.S.C. 11001-11050) and the Pollution Prevention Act of 1990 (PPA)(42 U.S.C. 13101-13109).
- (b) The Contractor shall provide all information needed by the Federal facility to comply with the emergency planning reporting requirements of Section 302 of EPCRA; the emergency notice requirements of Section 304 of EPCRA; the list of Material Safety Data Sheets required by Section 311 of EPCRA; the emergency and hazardous chemical inventory forms of Section 312 of EPCRA; the toxic chemical release inventory of Section 313 of EPCRA, which includes the reduction and recycling information required by Section 6607 of PPA; and the toxic chemical reduction goals requirements of Section 3-302 of Executive Order 12856.

## 52.223-6 DRUG-FREE WORKPLACE (MAR 2001)

(a) Definitions. As used in this clause --

"Controlled substance" means a controlled substance in schedules I through V of section 202 of the Controlled Substances Act (21 U.S.C. 812) and as further defined in regulation at 21 CFR 1308.11 - 1308.15.

"Conviction" means a finding of guilt (including a plea of nolo contendere) or imposition of sentence, or both, by any judicial body charged with the responsibility to deter- mine violations of the Federal or State criminal drug statutes.

"Criminal drug statute" means a Federal or non-Federal criminal statute involving the manufacture, distribution, dispensing, possession, or use of any controlled substance.

"Drug-free workplace" means the site(s) for the performance of work done by the Contractor in connection with a specific contract where employees of the Contractor are prohibited from engaging in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance.

"Employee" means an employee of a Contractor directly engaged in the performance of work under a Government contract. "Directly engaged" is defined to include all direct cost employees and any other Contractor employee who has other than a minimal impact or involvement in contract performance.

"Individual" means an offeror/contractor that has no more than one employee including the offeror/contractor.

- (b) The Contractor, if other than an individual, shall-- within 30 days after award (unless a longer period is agreed to in writing for contracts of 30 days or more performance duration), or as soon as possible for contracts of less than 30 days performance duration--
- (1) Publish a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition;
- (2) Establish an ongoing drug-free awareness program to inform such employees about-
- (i) The dangers of drug abuse in the workplace;
- (ii) The Contractor's policy of maintaining a drug-free workplace;
- (iii) Any available drug counseling, rehabilitation, and employee assistance programs; and
- (iv) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (3) Provide all employees engaged in performance of the contract with a copy of the statement required by subparagraph (b)(1) of this clause;
- (4) Notify such employees in writing in the statement required by subparagraph (b)(1) of this clause that, as a condition of continued employment on this contract, the employee will--
- (i) Abide by the terms of the statement; and
- (ii) Notify the employer in writing of the employee's conviction under a criminal drug statute for a violation occurring in the workplace no later than 5 days after such conviction.
- (5) Notify the Contracting Officer in writing within 10 days after receiving notice under subdivision (b)(4)(ii) of this clause, from an employee or otherwise receiving actual notice of such conviction. The notice shall include the position title of the employee:
- (6) Within 30 days after receiving notice under subdivision (b)(4)(ii) of this clause of a conviction, take one of the following actions with respect to any employee who is convicted of a drug abuse violation occurring in the workplace:

- (i) Taking appropriate personnel action against such employee, up to and including termination; or
- (ii) Require such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency; and
- (7) Make a good faith effort to maintain a drug-free workplace through implementation of subparagraphs (b)(1) though (b)(6) of this clause.
- (c) The Contractor, if an individual, agrees by award of the contract or acceptance of a purchase order, not to engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance while performing this contract.
- (d) In addition to other remedies available to the Government, the Contractor's failure to comply with the requirements of paragraph (b) or (c) of this clause may, pursuant to FAR 23.506, render the Contractor subject to suspension of contract payments, termination of the contract for default, and suspension or debarment.

### 52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUL 2000)

- (a) The Contractor shall not acquire, for use in the performance of this contract, any supplies or services originating from sources within, or that were located in or transported from or through, countries whose products are banned from importation into the United States under regulations of the Office of Foreign Assets Control, Department of the Treasury. Those countries are Cuba, Iran, Iraq, Libya, North Korea, Sudan, the territory of Afghanistan controlled by the Taliban, and Serbia (excluding the territory of Kosovo).
- (b) The Contractor shall not acquire for use in the performance of this contract any supplies or services from entities controlled by the government of Iraq.
- (c) The Contractor shall insert this clause, including this paragraph (c), in all subcontracts.

(End of clause)

### 52.227-1 AUTHORIZATION AND CONSENT (JUL 1995)

(a) The Government authorizes and consents to all use and manufacture, in performing this contract or any subcontract at any tier, of any invention described in and covered by a United States patent (1) embodied in the structure or composition of any article the delivery of which is accepted by the Government under this contract or (2) used in machinery, tools, or methods whose use necessarily results from compliance by the Contractor or a subcontractor with (i) specifications or written provisions forming a part of this contract or (ii) specific written instructions given by the Contracting Officer directing the manner of performance. The entire liability to the Government for infringement of a patent of the United States shall be determined solely by the provisions of the indemnity clause, if any, included in this contract or any subcontract hereunder (including any lower-tier subcontract), and the Government assumes liability for all other infringement to the extent of the authorization and consent hereinabove granted.

(b) The Contractor agrees to include, and require inclusion of, this clause, suitably modified to identify the parties, in all subcontracts at any tier for supplies or services (including construction, architect-engineer services, and materials, supplies, models, samples, and design or testing services expected to exceed the simplified acquisition threshold (however, omission of this clause from any subcontract, including those at or below the simplified acquisition threshold, does not affect this authorization and consent.)

# 52.229-4 FEDERAL, STATE, AND LOCAL TAXES (NONCOMPETITIVE CONTRACT) (JAN 1991)

- (a) "Contract date," as used in this clause, means the effective date of this contract and, for any modification to this contract, the effective date of the modification.
- "All applicable Federal, State, and local taxes and duties," as used in this clause, means all taxes and duties, in effect on the contract date, that the taxing authority is imposing and collecting on the transactions or property covered by this contract.
- "After-imposed tax," as used in this clause, means any new or increased Federal, State, or local tax or duty, or tax that was excluded on the contract date but whose exclusion was later revoked or amount of exemption reduced during the contract period, other than an excepted tax, on the transactions or property covered by this contract that the Contractor is required to pay or bear as the result of legislative, judicial, or administrative action taking effect after the contract date.
- "After-relieved tax," as used in this clause, means any amount of Federal, State, or local tax or duty, other than an excepted tax, that would otherwise have been payable on the transactions or property covered by this contract, but which the Contractor is not required to pay or bear, or for which the Contractor obtains a refund or drawback, as the result of legislative, judicial, or administrative action taking effect after the contract date.
- "Excepted tax," as used in this clause, means social security or other employment taxes, net income and franchise taxes, excess profits taxes, capital stock taxes, transportation taxes, unemployment compensation taxes, and property taxes. "Excepted tax" does not include gross income taxes levied on or measured by sales or receipts from sales, property taxes assessed on completed supplies covered by this contract, or any tax assessed on the Contractor's possession of, interest in, or use of property, title to which is in the Government.
- (b) Unless otherwise provided in this contract, the contract price includes all applicable Federal, State, and local taxes and duties.
- (c) The contract price shall be increased by the amount of any after-imposed tax, or of any tax or duty specifically excluded from the contract price by a term or condition of this contract that the Contractor is required to pay or bear, including any interest or penalty, if the Contractor states in writing that the contract price does not include any contingency for such tax and if liability for such tax, interest, or penalty was not incurred through the Contractor's fault, negligence, or failure to follow instructions of the Contracting Officer.
- (d) The contract price shall be decreased by the amount of any after-relieved tax. The Government shall be entitled to interest received by the Contractor incident to a refund of taxes to the extent that such interest was earned after the Contractor was paid by the Government for such taxes. The Government shall be entitled to repayment of any penalty refunded to the Contractor to the extent that the penalty was paid by the Government.
- (e) The contract price shall be decreased by the amount of any Federal, State, or local tax, other than an excepted tax, that was included in the contract price and that the Contractor is required to

pay or bear, or does not obtain a refund of, through the Contractor's fault, negligence, or failure to follow instructions of the Contracting Officer.

- (f) No adjustment shall be made in the contract price under this clause unless the amount of the adjustment exceeds \$250.
- (g) The Contractor shall promptly notify the Contracting Officer of all matters relating to Federal, State, and local taxes and duties that reasonably may be expected to result in either an increase or decrease in the contract price and shall take appropriate action as the Contracting Officer directs. The contract price shall be equitably adjusted to cover the costs of action taken by the Contractor at the direction of the Contracting Officer, including any interest, penalty, and reasonable attorneys' fees.
- (h) The Government shall furnish evidence appropriate to establish exemption from any Federal, State, or local tax when (1) the Contractor requests such exemption and states in writing that it applies to a tax excluded from the contract price and (2) a reasonable basis exists to sustain the exemption.

(End of clause)

### 52.232-1 PAYMENTS (APR 1984)

The Government shall pay the Contractor, upon the submission of proper invoices or vouchers, the prices stipulated in this contract for supplies delivered and accepted or services rendered and accepted, less any deductions provided in this contract. Unless otherwise specified in this contract, payment shall be made on partial deliveries accepted by the Government if--

- (a) The amount due on the deliveries warrants it; or
- (b) The Contractor requests it and the amount due on the deliveries is at least \$1,000 or 50 percent of the total contract price.

# 52.232-8 DISCOUNTS FOR PROMPT PAYMENT (MAY 1997)

- (a) Discounts for prompt payment will not be considered in the evaluation of offers. However, any offered discount will form a part of the award, and will be taken if payment is made within the discount period indicated in the offer by the offeror. As an alternative to offering a prompt payment discount in conjunction with the offer, offerors awarded contracts may include prompt payment discounts on individual invoices.
- (b) In connection with any discount offered for prompt payment, time shall be computed from the date of the invoice. If the Contractor has not placed a date on the invoice, the due date shall be calculated from the date the designated billing office receives a proper invoice, provided the agency annotates such invoice with the date of receipt at the time of receipt. For the purpose of computing the discount earned, payment shall be considered to have been made on the date that appears on the payment check or, for an electronic funds transfer, the specified payment date. When the discount date falls on a Saturday, Sunday, or legal holiday when Federal Government offices are closed and Government business is not expected to be conducted, payment may be made on the following business day.

### 52.232-11 EXTRAS (APR 1984)

Except as otherwise provided in this contract, no payment for extras shall be made unless such extras and the price therefore have been authorized in writing by the Contracting Officer.

## 52.232-17 INTEREST (JUNE 1996)

- (a) Except as otherwise provided in this contract under a Price Reduction for Defective Cost or Pricing Data clause or a Cost Accounting Standards clause, all amounts that become payable by the Contractor to the Government under this contract (net of any applicable tax credit under the Internal Revenue Code (26 U.S.C. 1481)) shall bear simple interest from the date due until paid unless paid within 30 days of becoming due. The interest rate shall be the interest rate established by the Secretary of the Treasury as provided in Section 12 of the Contract Disputes Act of 1978 (Public Law 95-563), which is applicable to the period in which the amount becomes due, as provided in paragraph (b) of this clause, and then at the rate applicable for each sixmonth period as fixed by the Secretary until the amount is paid. reproduce, prepare derivative works, distribute copies to the public, and (b) Amounts shall be due at the earliest of the following dates:
- (1) The date fixed under this contract.
- (2) The date of the first written demand for payment consistent with this contract, including any demand resulting from a default termination.
- (3) The date the Government transmits to the Contractor a proposed supplemental agreement to confirm completed negotiations establishing the amount of debt.
- (4) If this contract provides for revision of prices, the date of written notice to the Contractor stating the amount of refund payable in connection with a pricing proposal or a negotiated pricing agreement not confirmed by contract modification.
- (c) The interest charge made under this clause may be reduced under the procedures prescribed in 32.614-2 of the Federal Acquisition Regulation in effect on the date of this contract.

### 52.232-23 ASSIGNMENT OF CLAIMS (JAN 1986)

- (a) The Contractor, under the Assignment of Claims Act, as amended, 31 U.S.C. 3727, 41 U.S.C. 15 (hereafter referred to as "the Act"), may assign its rights to be paid amounts due or to become due as a result of the performance of this contract to a bank, trust company, or other financing institution, including any Federal lending agency. The assignee under such an assignment may thereafter further assign or reassign its right under the original assignment to any type of financing institution described in the preceding sentence.
- (b) Any assignment or reassignment authorized under the Act and this clause shall cover all unpaid amounts payable under this contract, and shall not be made to more than one party, except that an assignment or reassignment may be made to one party as agent or trustee for two or more parties participating in the financing of this contract.
- (c) The Contractor shall not furnish or disclose to any assignee under this contract any classified document (including this contract) or information related to work under this contract until the Contracting Officer authorizes such action in writing.

# 52.232-25 PROMPT PAYMENT (MAR 2001)

Notwithstanding any other payment clause in this contract, the Government will make invoice payments and contract financing payments under the terms and conditions specified in this clause. Payment shall be considered as being made on the day a check is dated or the date of an electronic funds transfer. Definitions of pertinent terms are set forth in sections 2.101 and 32.902 of the Federal Acquisition Regulation. All days referred to in this clause are calendar days, unless otherwise specified. (However, see subparagraph (a)(4) of this clause concerning payments due on Saturdays, Sundays, and legal holidays.)

- (a) Invoice payments. (1) Due date--(i) Except as indicated in subparagraph (a)(2) and paragraph (c) of this clause, the due date for making invoice payments by the designated payment office shall be the later of the following two events:
- (A) The 30th day after the designated billing office has received a proper invoice from the Contractor (except as provided in subdivision (a)(1)(ii) of this clause).
- (B) The 30th day after Government acceptance of supplies delivered or services performed by the Contractor. On a final invoice where the payment amount is subject to contract settlement actions, acceptance shall be deemed to have occurred on the effective date of the contract settlement.
- (ii) If the designated billing office fails to annotate the invoice with the actual date of receipt at the time of receipt, the invoice payment due date shall be the 30th day after the date of the Contractor's invoice; provided a proper invoice is received and there is no disagreement over quantity, quality, or Contractor compliance with contract requirements.
- (2) Certain food products and other payments. (i) Due dates on Contractor invoices for meat, meat food products, or fish; perishable agricultural commodities; and dairy products, edible fats or oils, and food products prepared from edible fats or oils are--
- (A) For meat or meat food products, as defined in section 2(a)(3) of the Packers and Stockyard Act of 1921 (7 U.S.C. 182(3)), and as further defined in Pub. L. 98-181, including any edible fresh or frozen poultry meat, any perishable poultry meat food product, fresh eggs, and any perishable egg product, as close as possible to, but not later than, the 7th day after product delivery.
- (B) For fresh or frozen fish, as defined in section 204(3) of the Fish and Seafood Promotion Act of 1986 (16 U.S.C. 4003(3)), as close as possible to, but not later than, the 7th day after product delivery.
- (C) For perishable agricultural commodities, as defined in section 1(4) of the Perishable Agricultural Commodities Act of 1930 (7 U.S.C. 499a(4)), as close as possible to, but not later than, the 10th day after product delivery, unless another date is specified in the contract.
- (D) For dairy products, as defined in section 111(e) of the Dairy Production Stabilization Act of 1983 (7 U.S.C. 4502(e)), edible fats or oils, and food products prepared from edible fats or oils, as close as possible to, but not later than, the 10th day after the date on which a proper invoice has been received. Liquid milk, cheese, certain processed cheese products, butter, yogurt, ice cream, mayonnaise, salad dressings, and other similar products, fall within this classification. Nothing in the Act limits this classification to refrigerated products. When questions arise regarding the proper classification of a specific product, prevailing industry practices will be followed in specifying a contract payment due date. The burden of proof that a classification of a specific product is, in fact, prevailing industry practice is upon the Contractor making the representation.

- (ii) If the contract does not require submission of an invoice for payment (e.g., periodic lease payments), the due date will be as specified in the contract.
- (3) Contractor's invoice. The Contractor shall prepare and submit invoices to the designated billing office specified in the contract. A proper invoice must include the items listed in subdivisions (a)(3)(i) through (a)(3)(viii) of this clause. If the invoice does not comply with these requirements, it shall be returned within 7 days after the date the designated billing office received the invoice (3 days for meat, meat food products, or fish; 5 days for perishable agricultural commodities, edible fats or oils, and food products prepared from edible fats or oils), with a statement of the reasons why it is not a proper invoice. Untimely notification will be taken into account in computing any interest penalty owed the Contractor in the manner described in subparagraph (a)(5) of this clause.
- (i) Name and address of the Contractor.
- (ii) Invoice date. (The Contractor is encouraged to date invoices as close as possible to the date of the mailing or transmission.)
- (iii) Contract number or other authorization for supplies delivered or services performed (including order number and contract line item number).
- (iv) Description, quantity, unit of measure, unit price, and extended price of supplies delivered or services performed.
- (v) Shipping and payment terms (e.g., shipment number and date of shipment, prompt payment discount terms). Bill of lading number and weight of shipment will be shown for shipments on Government bills of lading.
- (vi) Name and address of Contractor official to whom payment is to be sent (must be the same as that in the contract or in a proper notice of assignment).
- (vii) Name (where practicable), title, phone number, and mailing address of person to be notified in the event of a defective invoice.
- (viii) Any other information or documentation required by the contract (such as evidence of shipment).
- (ix) While not required, the Contractor is strongly encouraged to assign an identification number to each invoice.
- (4) Interest penalty. An interest penalty shall be paid automatically by the designated payment office, without request from the Contractor, if payment is not made by the due date and the conditions listed in subdivisions (a)(4)(i) through (a)(4)(iii) of this clause are met, if applicable. However, when the due date falls on a Saturday, Sunday, or legal holiday when Federal Government offices are closed and Government business is not expected to be conducted, payment may be made on the following business day without incurring a late payment interest penalty.
- (i) A proper invoice was received by the designated billing office.
- (ii) A receiving report or other Government documentation authorizing payment was processed, and there was no disagreement over quantity, quality, or Contractor compliance with any contract term or condition.

- (iii) In the case of a final invoice for any balance of funds due the Contractor for supplies delivered or services performed, the amount was not subject to further contract settlement actions between the Government and the Contractor.
- (5) Computing penalty amount. The interest penalty shall be at the rate established by the Secretary of the Treasury under section 12 of the Contract Disputes Act of 1978 (41 U.S.C. 611) that is in effect on the day after the due date, except where the interest penalty is prescribed by other governmental authority (e.g., tariffs). This rate is referred to as the "Renegotiation Board Interest Rate." and it is published in the Federal Register semiannually on or about January 1 and July 1. The interest penalty shall accrue daily on the invoice principal payment amount approved by the Government until the payment date of such approved principal amount; and will be compounded in 30-day increments inclusive from the first day after the due date through the payment date. That is, interest accrued at the end of any 30-day period will be added to the approved invoice principal payment amount and will be subject to interest penalties if not paid in the succeeding 30-day period. If the designated billing office failed to notify the Contractor of a defective invoice within the periods prescribed in subparagraph (a)(3) of this clause, the due date on the corrected invoice will be adjusted by subtracting from such date the number of days taken beyond the prescribed notification of defects period. Any interest penalty owed the Contractor will be based on this adjusted due date. Adjustments will be made by the designated payment office for errors in calculating interest penalties.
- (i) For the sole purpose of computing an interest penalty that might be due the Contractor, Government acceptance shall be deemed to have occurred constructively on the 7th day (unless otherwise specified in this contract) after the Contractor delivered the supplies or performed the services in accordance with the terms and conditions of the contract, unless there is a disagreement over quantity, quality, or Contractor compliance with a contract provision. In the event that actual acceptance occurs within the constructive acceptance period, the determination of an interest penalty shall be based on the actual date of acceptance. The constructive acceptance requirement does not, however, compel Government officials to accept supplies or services, perform contract administration functions, or make payment prior to fulfilling their responsibilities.
- (ii) The following periods of time will not be included in the determination of an interest penalty:
- (A) The period taken to notify the Contractor of defects in invoices submitted to the Government, but this may not exceed 7 days (3 days for meat, meat food products, or fish; 5 days for perishable agricultural commodities, dairy products, edible fats or oils, and food products prepared from edible fats or oils).
- (B) The period between the defects notice and resubmission of the corrected invoice by the Contractor.
- (C) For incorrect electronic funds transfer (EFT) information, in accordance with the EFT clause of this contract.
- (iii) Interest penalties will not continue to accrue after the filing of a claim for such penalties under the clause at 52.233-1, Disputes, or for more than 1 year. Interest penalties of less than \$1 need not be paid.
- (iv) Interest penalties are not required on payment delays due to disagreement between the Government and the Contractor over the payment amount or other issues involving contract compliance or on amounts temporarily withheld or retained in accordance with the terms of the contract. Claims involving disputes, and any interest that may be payable, will be resolved in accordance with the clause at 52.233-1, Disputes.

- (6) Prompt payment discounts. An interest penalty also shall be paid automatically by the designated payment office, without request from the Contractor, if a discount for prompt payment is taken improperly. The interest penalty will be calculated as described in subparagraph (a)(5) of this clause on the amount of discount taken for the period beginning with the first day after the end of the discount period through the date when the Contractor is paid.
- (7) Additional interest penalty. (i) If this contract was awarded on or after October 1, 1989, a penalty amount, calculated in accordance with subdivision (a)(7)(iii) of this clause, shall be paid in addition to the interest penalty amount if the Contractor--
- (A) Is owed an interest penalty of \$1 or more;
- (B) Is not paid the interest penalty within 10 days after the date the invoice amount is paid; and
- (C) Makes a written demand to the designated payment office for additional penalty payment, in accordance with subdivision (a)(7)(ii) of this clause, postmarked not later than 40 days after the invoice amount is paid.
- (ii)(A) Contractors shall support written demands for additional penalty payments with the following data. No additional data shall be required. Contractors shall--
- (1) Specifically assert that late payment interest is due under a specific invoice, and request payment of all overdue late payment interest penalty and such additional penalty as may be required;
- (2) Attach a copy of the invoice on which the unpaid late payment interest was due; and
- (3) State that payment of the principal has been received, including the date of receipt.
- (B) Demands must be postmarked on or before the 40th day after payment was made, except that--
- (1) If the postmark is illegible or nonexistent, the demand must have been received and annotated with the date of receipt by the designated payment office on or before the 40th day after payment was made; or
- (2) If the postmark is illegible or nonexistent and the designated payment office fails to make the required annotation, the demand's validity will be determined by the date the Contractor has placed on the demand; provided such date is no later than the 40th day after payment was made.
- (iii)(A) The additional penalty shall be equal to 100 percent of any original late payment interest penalty, except--
- (1) The additional penalty shall not exceed \$5,000;
- (2) The additional penalty shall never be less than \$25; and
- (3) No additional penalty is owed if the amount of the underlying interest penalty is less than \$1.
- (B) If the interest penalty ceases to accrue in accordance with the limits stated in subdivision (a)(5)(iii) of this clause, the amount of the additional penalty shall be calculated on the amount of interest penalty that would have accrued in the absence of these limits, subject to the overall limits on the additional penalty specified in subdivision (a)(7)(iii)(A) of this clause.

- (C) For determining the maximum and minimum additional penalties, the test shall be the interest penalty due on each separate payment made for each separate contract. The maximum and minimum additional penalty shall not be based upon individual invoices unless the invoices are paid separately. Where payments are consolidated for disbursing purposes, the maximum and minimum additional penalty determination shall be made separately for each contract therein.
- (D) The additional penalty does not apply to payments regulated by other Government regulations (e.g., payments under utility contracts subject to tariffs and regulation).
- (b) Contract financing payments. (1) Due dates for recurring financing payments. If this contract provides for contract financing, requests for payment shall be submitted to the designated billing office as specified in this contract or as directed by the Contracting Officer. Contract financing payments shall be made on the [insert day as prescribed by Agency head; if not prescribed, insert 30th day] day after receipt of a proper contract financing request by the designated billing office. In the event that an audit or other review of a specific financing request is required to ensure compliance with the terms and conditions of the contract, the designated payment office is not compelled to make payment by the due date specified.
- (2) Due dates for other contract financing. For advance payments, loans, or other arrangements that do not involve recurring submissions of contract financing requests, payment shall be made in accordance with the corresponding contract terms or as directed by the Contracting Officer.
- (3) Interest penalty not applicable. Contract financing payments shall not be assessed an interest penalty for payment delays.
- (c) Fast payment procedure due dates. If this contract contains the clause at 52.213-1, Fast Payment Procedure, payments will be made within 15 days after the date of receipt of the invoice.

# 52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER—CENTRAL CONTRACTOR REGISTRATION (MAY 1999)

- (a) Method of payment. (1) All payments by the Government under this contract shall be made by electronic funds transfer (EFT), except as provided in paragraph (a)(2) of this clause. As used in this clause, the term "EFT" refers to the funds transfer and may also include the payment information transfer.
- (2) In the event the Government is unable to release one or more payments by EFT, the Contractor agrees to either--
- (i) Accept payment by check or some other mutually agreeable method of payment; or
- (ii) Request the Government to extend the payment due date until such time as the Government can make payment by EFT (but see paragraph (d) of this clause).
- (b) Contractor's EFT information. The Government shall make payment to the Contractor using the EFT information contained in the Central Contractor Registration (CCR) database. In the event that the EFT information changes, the Contractor shall be responsible for providing the updated information to the CCR database.
- (c) Mechanisms for EFT payment. The Government may make payment by EFT through either the Automated Clearing House (ACH) network, subject to the rules of the National Automated Clearing House Association, or the Fedwire Transfer System. The rules governing Federal payments through the ACH are contained in 31 CFR part 210.

- (d) Suspension of payment. If the Contractor's EFT information in the CCR database is incorrect, then the Government need not make payment to the Contractor under this contract until correct EFT information is entered into the CCR database; and any invoice or contract financing request shall be deemed not to be a proper invoice for the purpose of prompt payment under this contract. The prompt payment terms of the contract regarding notice of an improper invoice and delays in accrual of interest penalties apply.
- (e) Contractor EFT arrangements. If the Contractor has identified multiple payment receiving points (i.e., more than one remittance address and/or EFT information set) in the CCR database, and the Contractor has not notified the Government of the payment receiving point applicable to this contract, the Government shall make payment to the first payment receiving point (EFT information set or remittance address as applicable) listed in the CCR database.
- (f) Liability for uncompleted or erroneous transfers. (1) If an uncompleted or erroneous transfer occurs because the Government used the Contractor's EFT information incorrectly, the Government remains responsible for--
- (i) Making a correct payment;
- (ii) Paying any prompt payment penalty due; and
- (iii) Recovering any erroneously directed funds.
- (2) If an uncompleted or erroneous transfer occurs because the Contractor's EFT information was incorrect, or was revised within 30 days of Government release of the EFT payment transaction instruction to the Federal Reserve System, and--
- (i) If the funds are no longer under the control of the payment office, the Government is deemed to have made payment and the Contractor is responsible for recovery of any erroneously directed funds; or
- (ii) If the funds remain under the control of the payment office, the Government shall not make payment, and the provisions of paragraph (d) of this clause shall apply.
- (g) EFT and prompt payment. A payment shall be deemed to have been made in a timely manner in accordance with the prompt payment terms of this contract if, in the EFT payment transaction instruction released to the Federal Reserve System, the date specified for settlement of the payment is on or before the prompt payment due date, provided the specified payment date is a valid date under the rules of the Federal Reserve System.
- (h) EFT and assignment of claims. If the Contractor assigns the proceeds of this contract as provided for in the assignment of claims terms of this contract, the Contractor shall require as a condition of any such assignment, that the assignee shall register in the CCR database and shall be paid by EFT in accordance with the terms of this clause. In all respects, the requirements of this clause shall apply to the assignee as if it were the Contractor. EFT information that shows the ultimate recipient of the transfer to be other than the Contractor, in the absence of a proper assignment of claims acceptable to the Government, is incorrect EFT information within the meaning of paragraph (d) of this clause.
- (i) Liability for change of EFT information by financial agent. The Government is not liable for errors resulting from changes to EFT information made by the Contractor's financial agent.
- (j) Payment information. The payment or disbursing office shall forward to the Contractor available payment information that is suitable for transmission as of the date of release of the EFT instruction to the Federal Reserve System. The Government may request the Contractor to

designate a desired format and method(s) for delivery of payment information from a list of formats and methods the payment office is capable of executing. However, the Government does not guarantee that any particular format or method of delivery is available at any particular payment office and retains the latitude to use the format and delivery method most convenient to the Government. If the Government makes payment by check in accordance with paragraph (a) of this clause, the Government shall mail the payment information to the remittance address contained in the CCR database.

(End of Clause)

# 52.233-1 DISPUTES. (DEC 1998)

- (a) This contract is subject to the Contract Disputes Act of 1978, as amended (41 U.S.C. 601-613).
- (b) Except as provided in the Act, all disputes arising under or relating to this contract shall be resolved under this clause.
- (c) "Claim," as used in this clause, means a written demand or written assertion by one of the contracting parties seeking, as a matter of right, the payment of money in a sum certain, the adjustment or interpretation of contract terms, or other relief arising under or relating to this contract. A claim arising under a contract, unlike a claim relating to that contract, is a claim that can be resolved under a contract clause that provides for the relief sought by the claimant. However, a written demand or written assertion by the Contractor seeking the payment of money exceeding \$100,000 is not a claim under the Act until certified as required by subparagraph (d)(2) of this clause. A voucher, invoice, or other routine request for payment that is not in dispute when submitted is not a claim under the Act. The submission may be converted to a claim under the Act, by complying with the submission and certification requirements of this clause, if it is disputed either as to liability or amount or is not acted upon in a reasonable time.
- (d)(1) A claim by the Contractor shall be made in writing and, unless otherwise stated in this contract, submitted within 6 years after accrual of the claim to the Contracting Officer for a written decision. A claim by the Government against the Contractor shall be subject to a written decision by the Contracting Officer.
- (2)(i) The contractors shall provide the certification specified in subparagraph (d)(2)(iii) of this clause when submitting any claim -
- (A) Exceeding \$100,000; or
- (B) Regardless of the amount claimed, when using -
- (1) Arbitration conducted pursuant to 5 U.S.C. 575-580; or
- (2) Any other alternative means of dispute resolution (ADR) technique that the agency elects to handle in accordance with the Administrative Dispute Resolution Act (ADRA).
- (ii) The certification requirement does not apply to issues in controversy that have not been submitted as all or part of a claim.
- (iii) The certification shall state as follows: "I certify that the claim is made in good faith; that the supporting data are accurate and complete to the best of my knowledge and belief; that the amount requested accurately reflects the contract adjustment for which the Contractor believes the Government is liable; and that I am duly authorized to certify the claim on behalf of the

#### Contractor.

- (3) The certification may be executed by any person duly authorized to bind the Contractor with respect to the claim.
- (e) For Contractor claims of \$100,000 or less, the Contracting Officer must, if requested in writing by the Contractor, render a decision within 60 days of the request. For Contractor-certified claims over \$100,000, the Contracting Officer must, within 60 days, decide the claim or notify the Contractor of the date by which the decision will be made.
- (f) The Contracting Officer's decision shall be final unless the Contractor appeals or files a suit as provided in the Act.
- (g) If the claim by the Contractor is submitted to the Contracting Officer or a claim by the Government is presented to the Contractor, the parties, by mutual consent, may agree to use alternative disput resolution (ADR). If the Contractor refuses an offer for ADR, the Contractor shall inform the Contracting Officer, in writing, of the Contractor's specific reasons for rejecting the request.
- (h) The Government shall pay interest on the amount found due and unpaid from (1) the date the Contracting Officer receives the claim (certified, if required); or (2) the date that payment otherwise would be due, if that date is later, until the date of payment. With regard to claims having defective certifications, as defined in (FAR) 48 CFR 33.201, interest shall be paid from the date that the Contracting Officer initially receives the claim. Simple interest on claims shall be paid at the rate, fixed by the Secretary of the Treasury as provided in the Act, which is applicable to the period during which the Contracting Officer receives the claim and then at the rate applicable for each 6-month period as fixed by the Treasury Secretary during the pendency of the claim.
- (i) The Contractor shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under the contract, and comply with any decision of the Contracting Officer.

(End of clause)

#### 52.233-3 PROTEST AFTER AWARD (AUG. 1996)

- (a) Upon receipt of a notice of protest (as defined in FAR 33.101) or a determination that a protest is likely (see FAR 33.102(d)), the Contracting Officer may, by written order to the Contractor, direct the Contractor to stop performance of the work called for by this contract. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Upon receipt of the final decision in the protest, the Contracting Officer shall either--
- (1) Cancel the stop-work order; or
- (2) Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.
- (b) If a stop-work order issued under this clause is canceled either before or after a final decision in the protest, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if--

- (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
- (2) The Contractor asserts its right to an adjustment within 30 days after the end of the period of work stoppage; provided, that if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon a proposal at any time before final payment under this contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
- (d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.
- (e) The Government's rights to terminate this contract at any time are not affected by action taken under this clause.
- (f) If, as the result of the Contractor's intentional or negligent misstatement, misrepresentation, or miscertification, a protest related to this contract is sustained, and the Government pays costs, as provided in FAR 33.102(b)(2) or 33.104(h)(1), the Government may require the Contractor to reimburse the Government the amount of such costs. In addition to any other remedy available, and pursuant to the requirements of Subpart 32.6, the Government may collect this debt by offsetting the amount against any payment due the Contractor under any contract between the Contractor and the Government.

#### 52.236-13 ACCIDENT PREVENTION (NOV 1991) - ALTERNATE I (NOV 1991)

- (a) The Contractor shall provide and maintain work environments and procedures which will
- (1) safeguard the public and Government personnel, property, materials, supplies, and equipment exposed to Contractor operations and activities;
- (2) avoid interruptions of Government operations and delays in project completion dates; and
- (3) control costs in the performance of this contract.
- (b) For these purposes on contracts for construction or dismantling, demolition, or removal of improvements, the Contractor shall-
- (1) Provide appropriate safety barricades, signs, and signal lights;
- (2) Comply with the standards issued by the Secretary of Labor at 29 CFR Part 1926 and 29 CFR Part 1910; and
- (3) Ensure that any additional measures the Contracting Officer determines to be reasonably necessary for the purposes are taken.
- (c) If this contract is for construction or dismantling, demolition or removal of improvements with any Department of Defense agency or component, the Contractor shall comply with all pertinent provisions of the latest version of U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, in effect on the date of the solicitation.

- (d) Whenever the Contracting Officer becomes aware of any noncompliance with these requirements or any condition which poses a serious or imminent danger to the health or safety of the public or Government personnel, the Contracting Officer shall notify the Contractor orally, with written confirmation, and request immediate initiation of corrective action. This notice, when delivered to the Contractor or the Contractor's representative at the work site, shall be deemed sufficient notice of the noncompliance and that corrective action is required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to promptly take corrective action, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. The Contractor shall not be entitled to any equitable adjustment of the contract price or extension of the performance schedule on any stop work order issued under this clause.
- (e) The Contractor shall insert this clause, including this paragraph (e), with appropriate changes in the designation of the parties, in subcontracts.
- (f) Before commencing the work, the Contractor shall-
- (1) Submit a written proposed plan for implementing this clause. The plan shall include an analysis of the significant hazards to life, limb, and property inherent in contract work performance and a plan for controlling these hazards; and
- (2) Meet with representatives of the Contracting Officer to discuss and develop a mutual understanding relative to administration of the overall safety program.

### 52.242-13 BANKRUPTCY (JUL 1995)

In the event the Contractor enters into proceedings relating to bankruptcy, whether voluntary or involuntary, the Contractor agrees to furnish, by certified mail or electronic commerce method authorized by the contract, written notification of the bankruptcy to the Contracting Officer responsible for administering the contract. This notification shall be furnished within five days of the initiation of the proceedings relating to bankruptcy filing. This notification shall include the date on which the bankruptcy petition was filed, the identity of the court in which the bankruptcy petition was filed, and a listing of Government contract numbers and contracting offices for all Government contracts against which final payment has not been made. This obligation remains in effect until final payment under this contract.

(End of clause)

# 52.243-1 CHANGES--FIXED-PRICE (AUG 1987) - ALTERNATE II (APR 1984)

- (a) The Contracting Officer may at any time, by written order, and without notice to the sureties, if any, make changes within the general scope of this contract in any one or more of the following:
- (1) Description of services to be performed.
- (2) Time of performance (i.e., hours of the day, days of the week, etc.).
- (3) Place of performance of the services.
- (4) Drawings, designs, or specifications when the supplies to be furnished are to be specially manufactured for the Government, in accordance with the drawings, designs, or specifications.

- (b) If any such change causes an increase or decrease in the cost of, or the time required for, performance of any part of the work under this contract, whether or not changed by the order, the Contracting Officer shall make an equitable adjustment in the contract price, the delivery schedule, or both, and shall modify the contract.
- (c) The Contractor must assert its right to an adjustment under this clause within 30 days from the date of receipt of the written order. However, if the Contracting Officer decides that the facts justify it, the Contracting Officer may receive and act upon a proposal submitted before final payment of the contract.
- (d) If the Contractor's proposal includes the cost of property made obsolete or excess by the change, the Contracting Officer shall have the right to prescribe the manner of the disposition of the property.
- (e) Failure to agree to any adjustment shall be a dispute under the Disputes clause. However, nothing in this clause shall excuse the Contractor from proceeding with the contract as changed.

#### 52.244-5 COMPETITION IN SUBCONTRACTING (DEC 1996)

- (a) The Contractor shall select subcontractors (including suppliers) on a competitive basis to the maximum practical extent consistent with the objectives and requirements of the contract.
- (b) If the Contractor is an approved mentor under the Department of Defense Pilot Mentor-Protege Program (Pub. L. 101–510, section 831 as amended), the Contractor may award subcontracts under this contract on a noncompetitive basis to its proteges.

# 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (MAR 2001)

(a) Definitions. As used this clause--

"Commercial item", has the meaning contained in the clause at 52.202-1, Definitions.

- "Subcontract", includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.
- (b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.
- (c)(1) The following clauses shall be flowed down to subcontracts for commercial items:
- (i) 52.219-8, Utilization of Small Business Concerns (OCT 2000) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (ii) 52.222-26, Equal Opportunity (FEB 1999) (E.O. 11246).
- (iii) 52.222-35, Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era (APR 1998) (38 U.S.C. 4212(a)).
- (iv) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793).

- (v) 52.247-64, Preference for Privately Owned U.S.-Flagged Commercial Vessels (JUN 2000) (46 U.S.C. Appx 1241) (flowdown not required for subcontracts awarded beginning May 1, 1996).
- (2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.
- (d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

# 52.246-25 LIMITATION OF LIABILITY--SERVICES (FEB 1997)

- (a) Except as provided in paragraphs (b) and (c) below, and except to the extent that the Contractor is expressly responsible under this contract for deficiencies in the services required to be performed under it (including any materials furnished in conjunction with those services), the Contractor shall not be liable for loss of or damage to property of the Government that (1) occurs after Government acceptance of services performed under this contract, and (2) results from any defects or deficiencies in the services performed or materials furnished.
- (b) The limitation of liability under paragraph (a) above shall not apply when a defect or deficiency in, or the Government's acceptance of, services performed or materials furnished results from willful misconduct or lack of good faith on the part of any of the Contractor's managerial personnel. The term "Contractor's managerial personnel," as used in this clause, means the Contractor's directors, officers, and any of the Contractor's managers, superintendents, or equivalent representatives who have supervision or direction of--
- (1) All or substantially all of the Contractor's business;
- (2) All or substantially all of the Contractor's operations at any one plant, laboratory, or separate location at which the contract is being performed; or
- (3) A separate and complete major industrial operation connected with the performance of this contract.
- (c) If the Contractor carries insurance, or has established a reserve for self-insurance, covering liability for loss or damage suffered by the Government through the Contractor's performance of services or furnishing of materials under this contract, the Contractor shall be liable to the Government, to the extent of such insurance or reserve, for loss of or damage to property of the Government occurring after Government acceptance of, and resulting from any defects and deficiencies in, services performed or materials furnished under this contract.

#### 52.248-1 VALUE ENGINEERING (FEB 2000)

- (a) General. The Contractor is encouraged to develop, prepare, and submit value engineering change proposals (VECP's) voluntarily. The Contractor shall share in any net acquisition savings realized from accepted VECP's, in accordance with the incentive sharing rates in paragraph (f) below.
- (b) Definitions. "**Acquisition** savings," as used in this clause, means savings resulting from the application of a VECP to contracts awarded by the same contracting office or its successor for essentially the same unit. Acquisition savings include--

- (1) Instant contract savings, which are the net cost reductions on this, the instant contract, and which are equal to the instant unit cost reduction multiplied by the number of instant contract units affected by the VECP, less the Contractor's allowable development and implementation costs;
- (2) Concurrent contract savings, which are net reductions in the prices of other contracts that are definitized and ongoing at the time the VECP is accepted; and
- (3) Future contract savings, which are the product of the future unit cost reduction multiplied by the number of future contract units in the sharing base. On an instant contract, future contract savings include savings on increases in quantities after VECP acceptance that are due to contract modifications, exercise of options, additional orders, and funding of subsequent year requirements on a multiyear contract.

"Collateral costs," as used in this clause, means agency cost of operation, maintenance, logistic support, or Government-furnished property.

"Collateral savings," as used in this clause, means those measurable net reductions resulting from a VECP in the agency's overall projected collateral costs, exclusive of acquisition savings, whether or not the acquisition cost changes.

"Contracting office" includes any contracting office that the acquisition is transferred to, such as another branch of the agency or another agency's office that is performing a joint acquisition action.

"Contractor's development and implementation costs," as used in this clause, means those costs the Contractor incurs on a VECP specifically in developing, testing, preparing, and submitting the VECP, as well as those costs the Contractor incurs to make the contractual changes required by Government acceptance of a VECP.

"Future unit cost reduction," as used in this clause, means the instant unit cost reduction adjusted as the Contracting Officer considers necessary for projected learning or changes in quantity during the sharing period. It is calculated at the time the VECP is accepted and applies either (1) throughout the sharing period, unless the Contracting Officer decides that recalculation is necessary because conditions are significantly different from those previously anticipated or (2) to the calculation of a lump-sum payment, which cannot later be revised.

"Government costs," as used in this clause, means those agency costs that result directly from developing and implementing the VECP, such as any net increases in the cost of testing, operations, maintenance, and logistics support. The term does not include the normal administrative costs of processing the VECP or any increase in this contract's cost or price resulting from negative instant contract savings.

"Instant contract," as used in this clause, means this contract, under which the VECP is submitted. It does not include increases in quantities after acceptance of the VECP that are due to contract modifications, exercise of options, or additional orders. If this is a multiyear contract, the term does not include quantities funded after VECP acceptance. If this contract is a fixed-price contract with prospective price redetermination, the term refers to the period for which firm prices have been established.

"Instant unit cost reduction" means the amount of the decrease in unit cost of performance (without deducting any Contractor's development or implementation costs) resulting from using the VECP on this, the instant contract. If this is a service contract, the instant unit cost reduction is normally equal to the number of hours per line-item task saved by using the VECP on this contract, multiplied by the appropriate contract labor rate.

"Negative instant contract savings" means the increase in the cost or price of this contract when the acceptance of a VECP results in an excess of the Contractor's allowable development and implementation costs over the product of the instant unit cost reduction multiplied by the number of instant contract units affected.

"Net acquisition savings" means total acquisition savings, including instant, concurrent, and future contract savings, less Government costs.

"Sharing base," as used in this clause, means the number of affected end items on contracts of the contracting office accepting the VECP.

Sharing period, as used in this clause, means the period beginning with acceptance of the first unit incorporating the VECP and ending at a calendar date or event determined by the contracting officer for each VECP.

"Unit," as used in this clause, means the item or task to which the Contracting Officer and the Contractor agree the VECP applies.

"Value engineering change proposal (VECP)" means a proposal that--

- (1) Requires a change to this, the instant contract, to implement; and
- (2) Results in reducing the overall projected cost to the agency without impairing essential functions or characteristics; provided, that it does not involve a change--
- (i) In deliverable end item quantities only;
- (ii) In research and development (R&D) end items or R&D test quantities that is due solely to results of previous testing under this contract; or
- (iii) To the contract type only.
- (c) VECP preparation. As a minimum, the Contractor shall include in each VECP the information described in subparagraphs (1) through (8) below. If the proposed change is affected by contractually required configuration management or similar procedures, the instructions in those procedures relating to format, identification, and priority assignment shall govern VECP preparation. The VECP shall include the following:
- (1) A description of the difference between the existing contract requirement and the proposed requirement, the comparative advantages and disadvantages of each, a justification when an item's function or characteristics are being altered, the effect of the change on the end item's performance, and any pertinent objective test data.
- (2) A list and analysis of the contract requirements that must be changed if the VECP is accepted, including any suggested specification revisions.
- (3) Identification of the unit to which the VECP applies.
- (4) A separate, detailed cost estimate for (i) the affected portions of the existing contract requirement and (ii) the VECP. The cost reduction associated with the VECP shall take into account the Contractor's allowable development and implementation costs, including any amount attributable to subcontracts under the Subcontracts paragraph of this clause, below.
- (5) A description and estimate of costs the Government may incur in implementing the VECP, such as test and evaluation and operating and support costs.

- (6) A prediction of any effects the proposed change would have on collateral costs to the agency.
- (7) A statement of the time by which a contract modification accepting the VECP must be issued in order to achieve the maximum cost reduction, noting any effect on the contract completion time or delivery schedule.
- (8) Identification of any previous submissions of the VECP, including the dates submitted, the agencies and contract numbers involved, and previous Government actions, if known.
- (d) Submission. The Contractor shall submit VECP's to the Contracting Officer, unless this contract states otherwise. If this contract is administered by other than the contracting office, the Contractor shall submit a copy of the VECP simultaneously to the Contracting Officer and to the Administrative Contracting Officer.
- (e) Government action. (1) The Contracting Officer will notify the Contractor of the status of the VECP within 45 calendar days after the contracting office receives it. If additional time is required, the Contracting Officer will notify the Contractor within the 45-day period and provide the reason for the delay and the expected date of the decision. The Government will process VECP's expeditiously; however, it shall not be liable for any delay in acting upon a VECP.
- (2) If the VECP is not accepted, the Contracting Officer will notify the Contractor in writing, explaining the reasons for rejection. The Contractor may withdraw any VECP, in whole or in part, at any time before it is accepted by the Government. The Contracting Officer may require that the Contractor provide written notification before undertaking significant expenditures for VECP effort.
- (3) Any VECP may be accepted, in whole or in part, by the Contracting Officer's award of a modification to this contract citing this clause and made either before or within a reasonable time after contract performance is completed. Until such a contract modification applies a VECP to this contract, the Contractor shall perform in accordance with the existing contract. The decision to accept or reject all or part of any VECP is a unilateral decision made solely at the discretion of the Contracting Officer.
- (f) Sharing rates. If a VECP is accepted, the Contractor shall share in net acquisition savings according to the percentages shown in the table below. The percentage paid the Contractor depends upon (1) this contract's type (fixed-price, incentive, or cost-reimbursement), (2) the sharing arrangement specified in paragraph (a) above (incentive, program requirement, or a combination as delineated in the Schedule), and (3) the source of the savings (the instant contract, or concurrent and future contracts), as follows:

# Government/Contractor Shares of Net Acquisition Savings [Figures in percent]

	Sharing Arrangement			
	Incentive (Voluntary)		Program Requirement (Mandatory)	
Contract Type	Instant Contract Rate	Concurrent and Future Rate	Instant Contract Rate	Concurrent and Future Contract Rate
Fixed-price (includes fixed-price-award-fee; excludes other fixed-price incentive contracts)	\1\ 50	\1\ 50	25	25
Incentive (fixed-price or cost) (other than award fee)	(\2\)	\1\50	(\2\)	25
Cost-reimbursement (includes cost-plus- award-fee; excludes other cost-type incentive contracts	\3\ 25	\3\ 25	15	15

- \1\ The contracting officer may increase the contractor's sharing rate to as high as 75 percent for each VECP. (See 48.102(g) (1) through (7).)
- \2\ Same sharing arrangement as the contract's profit or fee adjustment formula.
- \3\ The contracting officer may increase the contractor's sharing rate to as high as 50 percent for each VECP. (See 48.102(g) (1) through (7).
- (g) Calculating net acquisition savings.
- (1) Acquisition savings are realized when (i) the cost or price is reduced on the instant contract, (ii) reductions are negotiated in concurrent contracts, (iii) future contracts are awarded, or (iv) agreement is reached on a lump-sum payment for future contract savings (see subparagraph (i)(4) below). Net acquisition savings are first realized, and the Contractor shall be paid a share, when Government costs and any negative instant contract savings have been fully offset against acquisition savings.
- (2) Except in incentive contracts, Government costs and any price or cost increases resulting from negative instant contract savings shall be offset against acquisition savings each time such savings are realized until they are fully offset. Then, the Contractor's share is calculated by multiplying net acquisition savings by the appropriate Contractor's percentage sharing rate (see paragraph (f) above). Additional Contractor shares of net acquisition savings shall be paid to the Contractor at the time realized.
- (3) If this is an incentive contract, recovery of Government costs on the instant contract shall be deferred and offset against concurrent and future contract savings. The Contractor shall share through the contract incentive structure in savings on the instant contract items affected. Any negative instant contract savings shall be added to the target cost or to the target price and ceiling price, and the amount shall be offset against concurrent and future contract savings.
- (4) If the Government does not receive and accept all items on which it paid the Contractor's share, the Contractor shall reimburse the Government for the proportionate share of these payments.
- (h) Contract adjustment. The modification accepting the VECP (or a subsequent modification issued as soon as possible after any negotiations are completed) shall--
- (1) Reduce the contract price or estimated cost by the amount of instant contract savings, unless this is an incentive contract;
- (2) When the amount of instant contract savings is negative, increase the contract price, target price and ceiling price, target cost, or estimated cost by that amount;
- (3) Specify the Contractor's dollar share per unit on future contracts, or provide the lump-sum payment;
- (4) Specify the amount of any Government costs or negative instant contract savings to be offset in determining net acquisition savings realized from concurrent or future contract savings; and
- (5) Provide the Contractor's share of any net acquisition savings under the instant contract in accordance with the following:
- (i) Fixed-price contracts--add to contract price.
- (ii) Cost-reimbursement contracts--add to contract fee.

- (i) Concurrent and future contract savings.
- (1) Payments of the Contractor's share of concurrent and future contract savings shall be made by a modification to the instant contract in accordance with subparagraph (h)(5) above. For incentive contracts, shares shall be added as a separate firm-fixed-price line item on the instant contract. The Contractor shall maintain records adequate to identify the first delivered unit for 3 years after final payment under this contract.
- (2) The Contracting Officer shall calculate the Contractor's share of concurrent contract savings by (i) subtracting from the reduction in price negotiated on the concurrent contract any Government costs or negative instant contract savings not yet offset and (ii) multiplying the result by the Contractor's sharing rate.
- (3) The Contracting Officer shall calculate the Contractor's share of future contract savings by (i) multiplying the future unit cost reduction by the number of future contract units scheduled for delivery during the sharing period, (ii) subtracting any Government costs or negative instant contract savings not yet offset, and (iii) multiplying the result by the Contractor's sharing rate.
- (4) When the Government wishes and the Contractor agrees, the Contractor's share of future contract savings may be paid in a single lump sum rather than in a series of payments over time as future contracts are awarded. Under this alternate procedure, the future contract savings may be calculated when the VECP is accepted, on the basis of the Contracting Officer's forecast of the number of units that will be delivered during the sharing period. The Contractor's share shall be included in a modification to this contract (see subparagraph (h)(3) above) and shall not be subject to subsequent adjustment.
- (5) Alternate no-cost settlement method. When, in accordance with subsection 48.104-4 of the Federal Acquisition Regulation, the Government and the Contractor mutually agree to use the no-cost settlement method, the following applies:
- (i) The Contractor will keep all the savings on the instant contract and on its concurrent contracts only.
- (ii) The Government will keep all the savings resulting from concurrent contracts placed on other sources, savings from all future contracts, and all collateral savings.
- (j) Collateral savings. If a VECP is accepted, the Contracting Officer will increase the instant contract amount, as specified in paragraph (h)(5) of this clause, by a rate from 20 to 100 percent, as determined by the Contracting Officer, of any projected collateral savings determined to be realized in a typical year of use after subtracting any Government costs not previously offset. However, the Contractor's share of collateral savings will not exceed the contract's firm-fixed-price, target price, target cost, or estimated cost, at the time the VECP is accepted, or \$100,000, whichever is greater. The Contracting Officer will be the sole determiner of the amount of collateral savings.
- (k) Relationship to other incentives. Only those benefits of an accepted VECP not rewardable under performance, design-to-cost (production unit cost, operating and support costs, reliability and maintainability), or similar incentives shall be rewarded under this clause. However, the targets of such incentives affected by the VECP shall not be adjusted because of VECP acceptance. If this contract specifies targets but provides no incentive to surpass them, the value engineering sharing shall apply only to the amount of achievement better than target.
- (I) Subcontracts. The Contractor shall include an appropriate value engineering clause in any subcontract of \$100,000 or more and may include one in subcontracts of lesser value. In calculating any adjustment in this contract's price for instant contract savings (or negative instant

contract savings), the Contractor's allowable development and implementation costs shall include any subcontractor's allowable development and implementation costs, and any value engineering incentive payments to a subcontractor, clearly resulting from a VECP accepted by the Government under this contract. The Contractor may choose any arrangement for subcontractor value engineering incentive payments; provided, that the payments shall not reduce the Government's share of concurrent or future contract savings or collateral savings.

(m) Data. The Contractor may restrict the Government's right to use any part of a VECP or the supporting data by marking the following legend on the affected parts:

"These data, furnished under the Value Engineering clause of contract . . . . . . . , shall not be disclosed outside the Government or duplicated, used, or disclosed, in whole or in part, for any purpose other than to evaluate a value engineering change proposal submitted under the clause. This restriction does not limit the Government's right to use information contained in these data if it has been obtained or is otherwise available from the Contractor or from another source without limitations."

If a VECP is accepted, the Contractor hereby grants the Government unlimited rights in the VECP and supporting data, except that, with respect to data qualifying and submitted as limited rights technical data, the Government shall have the rights specified in the contract modification implementing the VECP and shall appropriately mark the data. (The terms "unlimited rights" and "limited rights" are defined in Part 27 of the Federal Acquisition Regulation.)

(End of clause)

# 52.249-2 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (SEP 1996)

- (a) The Government may terminate performance of work under this contract in whole or, from time to time, in part if the Contracting Officer determines that a termination is in the Government's interest. The Contracting Officer shall terminate by delivering to the Contractor a Notice of Termination specifying the extent of termination and the effective date.
- (b) After receipt of a Notice of Termination, and except as directed by the Contracting Officer, the Contractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due under this clause:
- (1) Stop work as specified in the notice.
- (2) Place no further subcontracts or orders (referred to as subcontracts in this clause) for materials, services, or facilities, except as necessary to complete the continued portion of the contract.
- (3) Terminate all subcontracts to the extent they relate to the work terminated.
- (4) Assign to the Government, as directed by the Contracting Officer, all right, title, and interest of the Contractor under the subcontracts terminated, in which case the Government shall have the right to settle or to pay any termination settlement proposal arising out of those terminations.
- (5) With approval or ratification to the extent required by the Contracting Officer, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts; the approval or ratification will be final for purposes of this clause.

- (6) As directed by the Contracting Officer, transfer title and deliver to the Government (i) the fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced or acquired for the work terminated, and (ii) the completed or partially completed plans, drawings, information, and other property that, if the contract had been completed, would be required to be furnished to the Government.
- (7) Complete performance of the work not terminated.
- (8) Take any action that may be necessary, or that the Contracting Officer may direct, for the protection and preservation of the property related to this contract that is in the possession of the Contractor and in which the Government has or may acquire an interest.
- (9) Use its best efforts to sell, as directed or authorized by the Contracting Officer, any property of the types referred to in subparagraph (b)(6) of this clause; provided, however, that the Contractor (i) is not required to extend credit to any purchaser and (ii) may acquire the property under the conditions prescribed by, and at prices approved by, the Contracting Officer. The proceeds of any transfer or disposition will be applied to reduce any payments to be made by the Government under this contract, credited to the price or cost of the work, or paid in any other manner directed by the Contracting Officer.
- (c) The Contractor shall submit complete termination inventory schedules no later than 120 days from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 120-day period.
- (d) After expiration of the plant clearance period as defined in Subpart 45.6 of the Federal Acquisition Regulation, the Contractor may submit to the Contracting Officer a list, certified as to quantity and quality, of termination inventory not previously disposed of, excluding items authorized for disposition by the Contracting Officer. The Contractor may request the Government to remove those items or enter into an agreement for their storage. Within 15 days, the Government will accept title to those items and remove them or enter into a storage agreement. The Contracting Officer may verify the list upon removal of the items, or if stored, within 45 days from submission of the list, and shall correct the list, as necessary, before final settlement.
- (e) After termination, the Contractor shall submit a final termination settlement proposal to the Contracting Officer in the form and with the certification prescribed by the Contracting Officer. The Contractor shall submit the proposal promptly, but no later than 1 year from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 1-year period. However, if the Contracting Officer determines that the facts justify it, a termination settlement proposal may be received and acted on after 1 year or any extension. If the Contractor fails to submit the proposal within the time allowed, the Contracting Officer may determine, on the basis of information available, the amount, if any, due the Contractor because of the termination and shall pay the amount determined.
- (f) Subject to paragraph (e) of this clause, the Contractor and the Contracting Officer may agree upon the whole or any part of the amount to be paid or remaining to be paid because of the termination. The amount may include a reasonable allowance for profit on work done. However, the agreed amount, whether under this paragraph (g) or paragraph (g) of this clause, exclusive of costs shown in subparagraph (g)(3) of this clause, may not exceed the total contract price as reduced by (1) the amount of payments previously made and (2) the contract price of work not terminated. The contract shall be modified, and the Contractor paid the agreed amount. Paragraph (g) of this clause shall not limit, restrict, or affect the amount that may be agreed upon to be paid under this paragraph.
- (g) If the Contractor and the Contracting Officer fail to agree on the whole amount to be paid because of the termination of work, the Contracting Officer shall pay the Contractor the amounts

determined by the Contracting Officer as follows, but without duplication of any amounts agreed on under paragraph (f) of this clause:

- (1) The contract price for completed supplies or services accepted by the Government (or sold or acquired under subparagraph (b)(9) of this clause) not previously paid for, adjusted for any saving of freight and other charges.
- (2) The total of--
- (i) The costs incurred in the performance of the work terminated, including initial costs and preparatory expense allocable thereto, but excluding any costs attributable to supplies or services paid or to be paid under subparagraph (f)(1) of this clause;
- (ii) The cost of settling and paying termination settlement proposals under terminated subcontracts that are properly chargeable to the terminated portion of the contract if not included in subdivision (g)(2)(i) of this clause; and
- (iii) A sum, as profit on subdivision (g)(2)(i) of this clause, determined by the Contracting Officer under 49.202 of the Federal Acquisition Regulation, in effect on the date of this contract, to be fair and reasonable; however, if it appears that the Contractor would have sustained a loss on the entire contract had it been completed, the Contracting Officer shall allow no profit under this subdivision (iii) and shall reduce the settlement to reflect the indicated rate of loss.
- (3) The reasonable costs of settlement of the work terminated, including-
- (i) Accounting, legal, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data;
- (ii) The termination and settlement of subcontracts (excluding the amounts of such settlements); and
- (iii) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory.
- (h) Except for normal spoilage, and except to the extent that the Government expressly assumed the risk of loss, the Contracting Officer shall exclude from the amounts payable to the Contractor under paragraph (g) of this clause, the fair value, as determined by the Contracting Officer, of property that is destroyed, lost, stolen, or damaged so as to become undeliverable to the Government or to a buyer.
- (i) The cost principles and procedures of Part 31 of the Federal Acquisition Regulation, in effect on the date of this contract, shall govern all costs claimed, agreed to, or determined under this clause.
- (j) The Contractor shall have the right of appeal, under the Disputes clause, from any determination made by the Contracting Officer under paragraph (e), (g), or (l) of this clause, except that if the Contractor failed to submit the termination settlement proposal or request for equitable adjustment within the time provided in paragraph (e) or (l), respectively, and failed to request a time extension, there is no right of appeal.
- (k) In arriving at the amount due the Contractor under this clause, there shall be deducted-
- (1) All unliquidated advance or other payments to the Contractor under the terminated portion of this contract:

- (2) Any claim which the Government has against the Contractor under this contract; and
- (3) The agreed price for, or the proceeds of sale of, materials, supplies, or other things acquired by the Contractor or sold under the provisions of this clause and not recovered by or credited to the Government.
- (I) If the termination is partial, the Contractor may file a proposal with the Contracting Officer for an equitable adjustment of the price(s) of the continued portion of the contract. The Contracting Officer shall make any equitable adjustment agreed upon. Any proposal by the Contractor for an equitable adjustment under this clause shall be requested within 90 days from the effective date of termination unless extended in writing by the Contracting Officer.
- (m)(1) The Government may, under the terms and conditions it prescribes, make partial payments and payments against costs incurred by the Contractor for the terminated portion of the contract, if the Contracting Officer believes the total of these payments will not exceed the amount to which the Contractor will be entitled.
- (2) If the total payments exceed the amount finally determined to be due, the Contractor shall repay the excess to the Government upon demand, together with interest computed at the rate established by the Secretary of the Treasury under 50 U.S.C. App. 1215(b)(2). Interest shall be computed for the period from the date the excess payment is received by the Contractor to the date the excess is repaid. Interest shall not be charged on any excess payment due to a reduction in the Contractor's termination settlement proposal because of retention or other disposition of termination inventory until 10 days after the date of the retention or disposition, or a later date determined by the Contracting Officer because of the circumstances.
- (n) Unless otherwise provided in this contract or by statute, the Contractor shall maintain all records and documents relating to the terminated portion of this contract for 3 years after final settlement. This includes all books and other evidence bearing on the Contractor's costs and expenses under this contract. The Contractor shall make these records and documents available to the Government, at the Contractor's office, at all reasonable times, without any direct charge. If approved by the Contracting Officer, photographs, microphotographs, or other authentic reproductions may be maintained instead of original records and documents.

# 52.249-8 DEFAULT (FIXED-PRICE SUPPLY AND SERVICE) (APR 1984)

- (a)(1) The Government may, subject to paragraphs (c) and (d) of this clause, by written notice of default to the Contractor, terminate this contract in whole or in part if the Contractor fails to-
- (i) Deliver the supplies or to perform the services within the time specified in this contract or any extension;
- (ii) Make progress, so as to endanger performance of this contract (but see subparagraph (a)(2) of this clause); or
- (iii) Perform any of the other provisions of this contract (but see subparagraph (a)(2) below).
- (2) The Government's right to terminate this contract under subdivisions (a)(1)(ii) and (1)(iii) of this clause, may be exercised if the Contractor does not cure such failure within 10 days (or more if authorized in writing by the Contracting Officer) after receipt of the notice from the Contracting Officer specifying the failure.
- (b) If the Government terminates this contract in whole or in part, it may acquire, under the terms and in the manner the Contracting Officer considers appropriate, supplies or services similar to

those terminated, and the Contractor will be liable to the Government for any excess costs for those supplies or services. However, the Contractor shall continue the work not terminated.

- (c) Except for defaults of subcontractors at any tier, the Contractor shall not be liable for any excess costs if the failure to perform the contract arises from causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include (1) acts of God or of the public enemy, (2) acts of the Government in either its sovereign or contractual capacity, (3) fires, (4) floods, (5) epidemics, (6) quarantine restrictions, (7) strikes, (8) freight embargoes, and (9) unusually severe weather. In each instance the failure to perform must be beyond the control and without the fault or negligence of the Contractor.
- (d) If the failure to perform is caused by the default of a subcontractor at any tier, and if the cause of the default is beyond the control of both the Contractor and subcontractor, and without the fault or negligence of either, the Contractor shall not be liable for any excess costs for failure to perform, unless the subcontracted supplies or services were obtainable from other sources in sufficient time for the Contractor to meet the required delivery schedule.
- (e) If this contract is terminated for default, the Government may require the Contractor to transfer title and deliver to the Government, as directed by the Contracting Officer, any (1) completed supplies, and (2) partially completed supplies and materials, parts, tools, dies, jigs, fixtures, plans, drawings, information, and contract rights (collectively referred to as "manufacturing materials" in this clause) that the Contractor has specifically produced or acquired for the terminated portion of this contract. Upon direction of the Contracting Officer, the Contractor shall also protect and preserve property in its possession in which the Government has an interest.
- (f) The Government shall pay contract price for completed supplies delivered and accepted. The Contractor and Contracting Officer shall agree on the amount of payment for manufacturing materials delivered and accepted and for the protection and preservation of the property. Failure to agree will be a dispute under the Disputes clause. The Government may withhold from these amounts any sum the Contracting Officer determines to be necessary to protect the Government against loss because of outstanding liens or claims of former lien holders.
- (g) If, after termination, it is determined that the Contractor was not in default, or that the default was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the Government.
- (h) The rights and remedies of the Government in this clause are in addition to any other rights and remedies provided by law or under this contract.

# 52.253-1 COMPUTER GENERATED FORMS (JAN 1991)

- (a) Any data required to be submitted on a Standard or Optional Form prescribed by the Federal Acquisition Regulation (FAR) may be submitted on a computer generated version of the form, provided there is no change to the name, content, or sequence of the data elements on the form, and provided the form carries the Standard or Optional Form number and edition date.
- (b) Unless prohibited by agency regulations, any data required to be submitted on an agency unique form prescribed by an agency supplement to the FAR may be submitted on a computer generated version of the form provided there is no change to the name, content, or sequence of the data elements on the form and provided the form carries the agency form number and edition date.

(c) If the Contractor submits a computer generated version of a form that is different than the required form, then the rights and obligations of the parties will be determined based on the content of the required form.

# 252.201-7000 CONTRACTING OFFICER'S REPRESENTATIVE (DEC 1991)

- (a) "Definition. Contracting officer's representative" means an individual designated in accordance with subsection 201.602-2 of the Defense Federal Acquisition Regulation Supplement and authorized in writing by the contracting officer to perform specific technical or administrative functions.
- (b) If the Contracting Officer designates a contracting officer's representative (COR), the Contractor will receive a copy of the written designation. It will specify the extent of the COR's authority to act on behalf of the contracting officer. The COR is not authorized to make any commitments or changes that will affect price, quality, quantity, delivery, or any other term or condition of the contract.

(End of clause)

# 252.203-7001 PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE-CONTRACT-RELATED FELONIES (MAR 1999)

- (a) Definitions. As used in this clause—
- (1) "Arising out of a contract with the DoD" means any act in connection with—
- (i) Attempting to obtain;
- (ii) Obtaining, or
- (iii) Performing a contract or first-tier subcontract of any agency, department, or component of the Department of Defense (DoD).
- (2) "Conviction of fraud or any other felony" means any conviction for fraud or a felony in violation of state or Federal criminal statutes, whether entered on a verdict or plea, including a plea of *nolo contendere*, for which sentence has been imposed.
- (3) "Date of conviction" means the date judgment was entered against the individual.
- (b) Any individual who is convicted after September 29, 1988, of fraud or any other felony arising out of a contract with the DoD is prohibited from serving--
- (1) In a management or supervisory capacity on any DoD contract or first-tier subcontract;
- (2) On the board of directors of any DoD contractor or first-tier subcontractor;
- (3) As a consultant, agent, or representative for any DoD contractor or first-tier subcontractor; or
- (4) In any other capacity with the authority to influence, advise, or control the decisions of any DoD contractor or subcontractor with regard to any DoD contract or first-tier subcontract.

- (c) Unless waived, the prohibition in paragraph (b) of this clause applies for not less than 5 years from the date of conviction.
- (d) 10 U.S.C. 2408 provides that a defense contractor or first-tier subcontractor shall be subject to a criminal penalty of not more than \$500,000 if convicted of knowingly—
- (1) Employing a person under a prohibition specified in paragraph (b) of this clause; or
- (2) Allowing such a person to serve on the board of directors of the contractor or first-tier subcontractor.
- (e) In addition to the criminal penalties contained in 10 U.S.C. 2408, the Government may consider other available remedies, such as—
- (1) Suspension or debarment;
- (2) Cancellation of the contract at no cost to the Government; or
- (3) Termination of the contract for default.
- (f) The Contractor may submit written requests for waiver of the prohibition in paragraph (b) of this clause to the Contracting Officer. Requests shall clearly identify—
- (1) The person involved;
- (2) The nature of the conviction and resultant sentence or punishment imposed;
- (3) The reasons for the requested waiver; and
- (4) An explanation of why a waiver is in the interest of national security.
- (g) The Contractor agrees to include the substance of this clause, appropriately modified to reflect the identity and relationship of the parties, in all first-tier subcontracts exceeding the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation, except those for commercial items or components.
- (h) Pursuant to 10 U.S.C. 2408(c), defense contractors and subcontractors may obtain information as to whether a particular person has been convicted of fraud or any other felony arising out of a contract with the DoD by contacting The Office of Justice Programs, The Denial of Federal Benefits Office, U.S. Department of Justice, telephone (202) 616-3507.

(End of clause)

252.209-7000 ACQUISITION FROM SUBCONTRACTORS SUBJECT TO ONSITE INSPECTION UNDER THE INTERMEDIATE-RANGE NUCLEAR FORCES (INF) TREATY (NOV 1995)

(a) The Contractor shall not deny consideration for a subcontract award under this contract to a potential subcontractor subject to on-site inspection under the INF Treaty, or a similar treaty, solely or in part because of the actual or potential presence of Soviet inspectors at the subcontractor's facility, unless the decision is approved by the Contracting Officer.

(b) The Contractor shall incorporate this clause, including this paragraph (b), in all solicitations and contracts exceeding the simplified acquisition threshold in part 13 of the Federal Acquisition Regulation, except those for commercial items.

# 252.219-7009 SECTION 8(A) DIRECT AWARD (JUN 1998)

(a) This contract is issued as a direct award between the contracting office and the 8(a) Contractor pursuant to the Memorandum of Understanding dated May 6, 1998, between the Small Business Administration (SBA) and the Department of Defense. Accordingly, the SBA is not a party to this contract. SBA does retain responsibility for 8(a) certification, for 8(a) eligibility determinations and related issues, and for providing counseling and assistance to the 8(a) Contractor under the 8(a) Program. The cognizant SBA district office is:

U. S. Small Business Administration – Boise District Office 1020 Main Street, Suite 290 Boise, Idaho 83702

- (b) The contracting office is responsible for administering the contract and for taking any action on behalf of the Government under the terms and conditions of the contract; provided that the contracting office shall give advance notice to the SBA before it issues a final notice terminating performance, either in whole or in part, under the contract. The contracting office also shall coordinate with the SBA prior to processing any novation agreement. The contracting office may assign contract administration functions to a contract administration office.
- (c) The Contractor agrees that--
- (1) It will notify the Contracting Officer, simultaneous with its notification to the SBA (as required by SBA's 8(a) regulations at 13 CFR 124.308), when the owner or owners upon whom 8(a) eligibility is based plan to relinquish ownership or control of the concern. Consistent with Section 407 of Pub. L. 100-656, transfer of ownership or control shall result in termination of the contract for convenience, unless the SBA waives the requirement for termination prior to the actual relinquishing of ownership and control; and
- (2) It will not subcontract the performance of any of the requirements of this contract without the prior written approval of the SBA and the Contracting Officer.

(End of Clause)

252.223-7004 DRUG-FREE WORK FORCE (SEP 1988)

- (a) Definitions.
- (1) "Employee in a sensitive position," as used in this clause, means an employee who has been granted access to classified information; or employees in other positions that the Contractor determines involve national security; health or safety, or functions other than the foregoing requiring a high degree of trust and confidence.
- (2) "Illegal drugs," as used in this clause, means controlled substances included in Schedules I and II, as defined by section 802(6) of title 21 of the United States Code, the possession of which is unlawful under chapter 13 of that Title. The term "illegal drugs" does not mean the use of a controlled substance pursuant to a valid prescription or other uses authorized by law.
- (b) The Contractor agrees to institute and maintain a program for achieving the objective of a drug-free work force. While this clause defines criteria for such a program, contractors are

encouraged to implement alternative approaches comparable to the criteria in paragraph (c) that are designed to achieve the objectives of this clause.

- (c) Contractor programs shall include the following, or appropriate alternatives:
- (1) Employee assistance programs emphasizing high level direction, education, counseling, rehabilitation, and coordination with available community resources;
- (2) Supervisory training to assist in identifying and addressing illegal drug use by Contractor employees;
- (3) Provision for self-referrals as well as supervisory referrals to treatment with maximum respect for individual confidentiality consistent with safety and security issues;
- (4) Provision for identifying illegal drug users, including testing on a controlled and carefully monitored basis. Employee drug testing programs shall be established taking account of the following:
- (i) The Contractor shall establish a program that provides for testing for the use of illegal drugs by employees in sensitive positions. The extent of and criteria for such testing shall be determined by the Contractor based on considerations that include the nature of the work being performed under the contract, the employee's duties, and efficient use of Contractor resources, and the risks to health, safety, or national security that could result from the failure of an employee adequately to discharge his or her position.
- (ii) In addition, the Contractor may establish a program for employee drug testing--
- (A) When there is a reasonable suspicion that an employee uses illegal drugs; or
- (B) When an employees has been involved in an accident or unsafe practice;
- (C) As part of or as a follow-up to counseling or rehabilitation for illegal drug use;
- (D) As part of a voluntary employee drug testing program.
- (iii) The Contractor may establish a program to test applicants for employment for illegal drug use.
- (iv) For the purpose of administering this clause, testing for illegal drugs may be limited to those substances for which testing is prescribed by section 2..1 of subpart B of the "Mandatory Guidelines for Federal Workplace Drug Testing Programs" (53 FR 11980 (April 11, 1988), issued by the Department of Health and Human Services.
- (d) Contractors shall adopt appropriate personnel procedures to deal with employees who are found to be using drugs illegally. Contractors shall not allow any employee to remain on duty or perform in a sensitive position who is found to use illegal drugs until such times as the Contractor, in accordance with procedures established by the Contractor, determines that the employee may perform in such a position.
- (e) The provisions of this clause pertaining to drug testing program shall not apply to the extent that are inconsistent with state or local law, or with an existing collective bargaining agreement; provided that with respect to the latter, the Contractor agrees those issues that are in conflict will be a subject of negotiation at the next collective bargaining session.

(End of clause)

# 252.223-7006 PROHIBITION ON STORAGE AND DISPOSAL OF TOXIC AND HAZARDOUS MATERIALS (APR 1993)

(a) "Definitions".

As used in this clause --

- (1) "Storage" means a non-transitory, semi-permanent or permanent holding, placement, or leaving of material. It does not include a temporary accumulation of a limited quantity of a material used in or a waste generated or resulting from authorized activities, such as servicing, maintenance, or repair of Department of Defense (DoD) items, equipment, or facilities.
- (2) "Toxic or hazardous materials" means:
- (i) Materials referred to in section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 (42 U.S.C. 9601(14)) and materials designated under section 102 of CERCLA (42 U.S.C. 9602) (40 CFR part 302);
- (ii) Materials that are of an explosive, flammable, or pyrotechnic nature; or
- (iii) Materials otherwise identified by the Secretary of Defense as specified in DoD regulations.
- (b) In accordance with 10 U.S.C. 2692, the Contractor is prohibited from storing or disposing of non-DoD-owned toxic or hazardous materials on a DoD installation, except to the extent authorized by a statutory exception to 10 U.S.C. 2692 or as authorized by the Secretary of Defense or his designee.

(End of clause)

#### 252.231-7000 SUPPLEMENTAL COST PRINCIPLES (DEC 1991)

When the allowability of costs under this contract is determined in accordance with part 31 of the Federal Acquisition Regulation (FAR), allowability shall also be determined in accordance with part 231 of the Defense FAR Supplement, in effect on the date of this contract.

#### 252.243-7001 PRICING OF CONTRACT MODIFICATIONS (DEC 1991)

When costs are a factor in any price adjustment under this contract, the contract cost principles and procedures in FAR part 31 and DFARS part 231, in effect on the date of this contract, apply.

# 252.243-7002 REQUESTS FOR EQUITABLE ADJUSTMENT (MAR 1998)

- (a) The amount of any request for equitable adjustment to contract terms shall accurately reflect the contract adjustment for which the Contractor believes the Government is liable. The request shall include only costs for performing the change, and shall not include any costs that already have been reimbursed or that have been separately claimed. All indirect costs included in the request shall be properly allocable to the change in accordance with applicable acquisition regulations.
- (b) In accordance with 10 U.S.C. 2410(a), any request for equitable adjustment to contract terms that exceeds the simplified acquisition threshold shall bear, at the time of submission, the

following certificate executed by an individual authorized to certify the request on behalf of the Contractor:

I certify that the request is made in good faith, and that the supporting data are accurate and complete to the best of my knowledge and belief.

(Official's Name)		
(Title)		

- (c) The certification in paragraph (b) of this clause requires full disclosure of all relevant facts, including--
- (1) Cost or pricing data if required in accordance with subsection 15.403-4 of the Federal Acquisition Regulation (FAR); and
- (2) Information other than cost or pricing data, in accordance with subsection 15.403-3 of the FAR, including actual cost data and data to support any estimated costs, even if cost or pricing data are not required.
- (d) The certification requirement in paragraph (b) of this clause does not apply to----
- (1) Requests for routine contract payments; for example, requests for payment for accepted supplies and services, routine vouchers under a cost-reimbursement type contract, or progress payment invoices; or
- (2) Final adjustment under an incentive provision of the contract.

#### 252.247-7023 TRANSPORTATION OF SUPPLIES BY SEA (MAR 2000)

- (a) Definitions. As used in this clause --
- (1) "Components" means articles, materials, and supplies incorporated directly into end products at any level of manufacture, fabrication, or assembly by the Contractor or any subcontractor.
- (2) "Department of Defense" (DoD) means the Army, Navy, Air Force, Marine Corps, and defense agencies.
- (3) "Foreign flag vessel" means any vessel that is not a U.S.-flag vessel.
- (4) "Ocean transportation" means any transportation aboard a ship, vessel, boat, barge, or ferry through international waters.
- (5) "Subcontractor" means a supplier, materialman, distributor, or vendor at any level below the prime contractor whose contractual obligation to perform results from, or is conditioned upon, award of the prime contract and who is performing any part of the work or other requirement of the prime contract.
- (6) "Supplies" means all property, except land and interests in land, that is clearly identifiable for eventual use by or owned by the DoD at the time of transportation by sea.
- (i) An item is clearly identifiable for eventual use by the DoD if, for example, the contract documentation contains a reference to a DoD contract number or a military destination.

- (ii) "Supplies" includes (but is not limited to) public works; buildings and facilities; ships; floating equipment and vessels of every character, type, and description, with parts, subassemblies, accessories, and equipment; machine tools; material; equipment; stores of all kinds; end items; construction materials; and components of the foregoing.
- (7) "U.S.-flag vessel" means a vessel of the United States or belonging to the United States, including any vessel registered or having national status under the laws of the United States.
- (b)(1) The Contractor shall use U.S.-flag vessels when transporting any supplies by sea under this contract.
- (2) A subcontractor transporting supplies by sea under this contract shall use U.S.-flag vessels if-
- (i) This contract is a construction contract; or
- (ii) The supplies being transported are--
- (A) Noncommercial items; or
- (B) Commercial items that--
- (1) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it contracts for f.o.b. destination shipment);
- (2) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or
- (3) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.
- (c) The Contractor and its subcontractors may request that the Contracting Officer authorize shipment in foreign-flag vessels, or designate available U.S.-flag vessels, if the Contractor or a subcontractor believes that --
- (1) U.S.-flag vessels are not available for timely shipment;
- (2) The freight charges are inordinately excessive or unreasonable; or
- (3) Freight charges are higher than charges to private persons for transportation of like goods.
- (d) The Contractor must submit any request for use of other than U.S.-flag vessels in writing to the Contracting Officer at least 45 days prior to the sailing date necessary to meet its delivery schedules. The Contracting Officer will process requests submitted after such date(s) as expeditiously as possible, but the Contracting Officer's failure to grant approvals to meet the shipper's sailing date will not of itself constitute a compensable delay under this or any other clause of this contract. Requests shall contain at a minimum --
- (1) Type, weight, and cube of cargo;
- (2) Required shipping date:
- (3) Special handling and discharge requirements;
- (4) Loading and discharge points;

- (5) Name of shipper and consignee;
- (6) Prime contract number; and
- (7) A documented description of efforts made to secure U.S.-flag vessels, including points of contact (with names and telephone numbers) with at least two U.S.-flag carriers contacted. Copies of telephone notes, telegraphic and facsimile message or letters will be sufficient for this purpose.
- (e) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Division of National Cargo, Office of Market Development, Maritime Administration, U.S. Department of Transportation, Washington, DC 20590, one copy of the rated on board vessel operating carrier's ocean bill of lading, which shall contain the following information --
- (1) Prime contract number;
- (2) Name of vessel;
- (3) Vessel flag of registry;
- (4) Date of loading;
- (5) Port of loading;
- (6) Port of final discharge;
- (7) Description of commodity;
- (8) Gross weight in pounds and cubic feet if available;
- (9) Total ocean freight in U.S. dollars; and
- (10) Name of the steamship company.
- (f) The Contractor agrees to provide with its final invoice under this contract a representation that to the best of its knowledge and belief --
- (1) No ocean transportation was used in the performance of this contract;
- (2) Ocean transportation was used and only U.S.-flag vessels were used for all ocean shipments under the contract;
- (3) Ocean transportation was used, and the Contractor had the written consent of the Contracting Officer for all non-U.S.-flag ocean transportation; or
- (4) Ocean transportation was used and some or all of the shipments were made on non-U.S.-flag vessels without the written consent of the Contracting Officer. The Contractor shall describe these shipments in the following format:

	Item Description	Contract Line Items	Quantity
Total			

- (g) If the final invoice does not include the required representation, the Government will reject and return it to the Contractor as an improper invoice for the purposes of the Prompt Payment clause of this contract. In the event there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.
- (h) The Contractor shall include this clause, including this paragraph (h), in all subcontractors under this contract that--
- (1) Exceed the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation; and
- (2) Are for a type of supplies described in paragraph (b)(3) of this clause.

(End of clause)

#### 252.247-7024 NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA (MAR 2000)

- (a) The Contractor has indicated by the response to the solicitation provision, Representation of Extent of Transportation by Sea, that it did not anticipate transporting by sea any supplies. If, however, after the award of this contract, the Contractor learns that supplies, as defined in the Transportation of Supplies by Sea clause of this contract, will be transported by sea, the Contractor --
- (1) Shall notify the Contracting Officer of that fact; and
- (2) Hereby agrees to comply with all the terms and conditions of the Transportation of Supplies by Sea clause of this contract.
- (b) The Contractor shall include this clause; including this paragraph (b), revised as necessary to reflect the relationship of the contracting parties--
- (1) In all subcontracts under this contract, if this contract is a construction contract; or
- (2) If this contract is not a construction contract, in all subcontracts under this contract that are for--
- (i) Noncommercial items; or
- (ii) Commercial items that--
- (A) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);
- (B) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or
- (C) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

(End of clause)

# SECTION J List of Documents, Exhibits and Other Attachments

PLEASE NOTE: Except for the attachment(s) listed below, attachments may be found following the section in which they are referenced.

Wage Determination No. 1994-2309 (Revision 23, dated 5/31/01)

Design Authentication relative to Drawings listed in Section C, 01010-1





William W.Gross



















#### WAGE DETERMINATION NO: 94-2309 REV (23) AREA: MO,ST. LOUIS

WAGE DETERMINATION NO: 94-2309 REV (23) AREA: MO,ST. LOUIS

REGISTER OF WAGE DETERMINATIONS UNDER U.S. DEPARTMENT OF LABOR

\*\*\*FOR OFFICIAL USE ONLY BY FEDERAL AGENCIES PARTICIPATING IN MOU WITH DOL\*\*\*

WASHINGTON D.C. 20210

Wage Determination No.: 1994-2309

Division of Revision No.: 23

Director Date Of Last Revision: 05/31/2001 Wage Determinations

States: Illinois, Missouri

Area: Illinois Counties of Alexander, Bond, Calhoun, Clay, Clinton, Effingham, Fayette, Franklin, Hamilton, Jackson, Jefferson, Jersey, Johnson, Madison, Marion, Massac, Monroe, Perry, Pope, Pulaski, Randolph, Saline, St Clair, Union, Washington, Wayne, Williamson Missouri Counties of Audrain, Boone, Callaway, Clark, Cole, Crawford, Franklin, Gasconade, Jefferson, Knox, Lewis, Lincoln, Marion, Monroe, Montgomery, Osage, Pike, Ralls, Randolph, Scotland, Shelby, St Charles, St Francois, St Louis, Ste Genevieve, Warren, Washington

\*\*Fringe Benefits Required Follow the Occupational Listing\*\* OCCUPATION TITLE MINIMUM WAGE RATE Administrative Support and Clerical Occupations Accounting Clerk I 10.20 Accounting Clerk II 11.10 Accounting Clerk III 13.17 Accounting Clerk IV 16.88 Court Reporter 13.17 Dispatcher, Motor Vehicle 12.79 Document Preparation Clerk 11.36 Duplicating Machine Operator 11.36 Film/Tape Librarian 9.90 General Clerk I 8.29 General Clerk II 9.95 General Clerk III 11.34 General Clerk IV 14.03 Housing Referral Assistant 15.51 Key Entry Operator I 8.22 Key Entry Operator II 9.56 Messenger (Courier) 8.31 Order Clerk I 8.53 Order Clerk II 10.99 Personnel Assistant (Employment) I 11.50 Personnel Assistant (Employment) II 12.92 Personnel Assistant (Employment) III 15.37 Personnel Assistant (Employment) IV 17.06 Production Control Clerk 15.85 Rental Clerk 11.37 Scheduler, Maintenance 12.33 12.33 Secretary I Secretary II 14.27 Secretary III 15.51 19.28 Secretary IV

Secretary V Service Order Dispatcher Stenographer I Stenographer II Supply Technician Survey Worker (Interviewer) Switchboard Operator-Receptionist Test Examiner Test Proctor Travel Clerk I Travel Clerk II	23.55 11.06 12.03 13.41 19.28 11.45 9.43 14.27 14.27 8.73 9.40
Travel Clerk III Word Processor I Word Processor II Word Processor III	10.03 11.55 13.32 17.02
Automatic Data Processing Occupations  Computer Data Librarian  Computer Operator I  Computer Operator III  Computer Operator IV  Computer Operator V  Computer Operator V  Computer Programmer I (1)  Computer Programmer III (1)  Computer Programmer IV (1)  Computer Programmer IV (1)  Computer Systems Analyst I (1)  Computer Systems Analyst II (1)  Computer Systems Analyst III (1)  Peripheral Equipment Operator	9.70 9.95 12.39 16.59 18.76 20.43 18.03 18.17 21.42 27.62 23.84 27.62 27.62 11.16
Automotive Service Occupations Automotive Body Repairer, Fiberglass Automotive Glass Installer Automotive Worker Electrician, Automotive Mobile Equipment Servicer Motor Equipment Metal Mechanic Motor Equipment Metal Worker Motor Vehicle Mechanic Motor Vehicle Mechanic Helper Motor Vehicle Upholstery Worker Motor Vehicle Wrecker Painter, Automotive Radiator Repair Specialist Tire Repairer Transmission Repair Specialist	20.33 17.92 17.92 18.69 16.35 19.47 17.92 18.29 15.18 17.13 17.92 18.69 17.92 15.80
Food Preparation and Service Occupations Baker Cook I Cook II Dishwasher Food Service Worker Meat Cutter Waiter/Waitress	10.97 10.02 10.97 7.97 7.59 11.37 7.85
Furniture Maintenance and Repair Occupations Electrostatic Spray Painter Furniture Handler Furniture Refinisher Furniture Refinisher Helper Furniture Repairer, Minor	18.69 12.84 18.69 15.18 17.13

Upholsterer	18.69
General Services and Support Occupations	
Cleaner, Vehicles	7.81
Elevator Operator	9.28
Gardener	11.92
House Keeping Aid I	7.40
House Keeping Aid II	9.00
Janitor	9.00
Laborer, Grounds Maintenance	9.34
Maid or Houseman	7.40
Pest Controller	12.46
Refuse Collector	9.37
Tractor Operator	11.17
Window Cleaner	9.97
Health Occupations	
Dental Assistant	11.81
Emergency Medical Technician (EMT)/Paramedic/Ambulance Driver	13.80
Licensed Practical Nurse I	11.72
Licensed Practical Nurse II	13.13
Licensed Practical Nurse III	14.70
Medical Assistant	9.36
Medical Laboratory Technician	12.14
Medical Record Clerk	10.76
Medical Record Technician	12.97
Nursing Assistant I	7.87
Nursing Assistant II	8.65
Nursing Assistant III	9.20
Nursing Assistant IV	10.76
Pharmacy Technician	11.66
Phlebotomist	9.89
Registered Nurse I	17.22
Registered Nurse II	20.97
Registered Nurse II, Specialist	20.97
	25.37
Registered Nurse III Registered Nurse III, Anesthetist	25.37
Registered Nurse IV	30.41
Information and Arts Occupations	10 05
Audiovisual Librarian	18.85
Exhibits Specialist I	16.67
Exhibits Specialist II	20.39
Exhibits Specialist III	21.97
Illustrator I	15.63
Illustrator II	19.11
Illustrator III	20.59
Librarian	21.34
Library Technician	11.45
Photographer I	13.28
Photographer II	14.90
Photographer III	18.22
Photographer IV	19.63
Photographer V	23.74
Laundry, Dry Cleaning, Pressing and Related Occupations	
Assembler	7.45
Counter Attendant	7.45
Dry Cleaner	8.37
Finisher, Flatwork, Machine	7.45
Presser, Hand	7.45
Presser, Machine, Drycleaning	7.45
Presser, Machine, Shirts	7.45
Presser, Machine, Wearing Apparel, Laundry	7.45

Sewing Machine Operator	8.95
Tailor	9.53
Washer, Machine	8.20
Machine Tool Operation and Repair Occupations	
Machine-Tool Operator (Toolroom)	20.07
Tool and Die Maker	23.59
Material Handling and Packing Occupations	
Forklift Operator	14.38
Fuel Distribution System Operator	16.35
Material Coordinator	17.81
Material Expediter	17.81
Material Handling Laborer	18.89
Order Filler	11.74
Production Line Worker (Food Processing)	13.62
Shipping Packer	13.44
Shipping/Receiving Clerk	13.44
Stock Clerk (Shelf Stocker; Store Worker II)	12.98
Store Worker I	9.55
Tools and Parts Attendant	14.23
Warehouse Specialist	12.16
Mechanics and Maintenance and Repair Occupations	
Aircraft Mechanic	19.83
Aircraft Mechanic Helper	15.46
Aircraft Quality Control Inspector	20.61
Aircraft Servicer	17.45
Aircraft Worker	18.25
Appliance Mechanic	18.69
Bicycle Repairer	15.80
Cable Splicer	21.83
Carpenter, Maintenance	21.92
Carpet Layer	21.07
Electrician, Maintenance	22.72
Electronics Technician, Maintenance I	19.67
Electronics Technician, Maintenance II	23.36
Electronics Technician, Maintenance III	23.54
Fabric Worker	17.13
Fire Alarm System Mechanic	19.74
Fire Extinguisher Repairer	16.35
Fuel Distribution System Mechanic	19.74
General Maintenance Worker	17.33
Heating, Refrigeration and Air Conditioning Mechanic	19.74
Heavy Equipment Mechanic	19.74
Heavy Equipment Operator	21.59
Instrument Mechanic	19.74
Laborer	11.13
Locksmith	18.69
Machinery Maintenance Mechanic	17.58
Machinist, Maintenance	21.31
Maintenance Trades Helper	15.18
Millwright	19.74
Office Appliance Repairer	18.69
Painter, Aircraft	19.79
Painter, Maintenance	20.18
Pipefitter, Maintenance	24.16
Plumber, Maintenance	23.43
Pneudraulic Systems Mechanic	19.47
Rigger	19.47
Scale Mechanic	17.92
Sheet-Metal Worker, Maintenance	21.56
Small Engine Mechanic	17.92

Telecommunication Mechanic I	19.47
Telecommunication Mechanic II	20.24
Telephone Lineman	19.47
Welder, Combination, Maintenance	19.47
Well Driller	19.47
Woodcraft Worker	19.47
Woodworker	16.35
Miscellaneous Occupations	0 10
Animal Caretaker	9.19
Carnival Equipment Operator	10.80
Carnival Equipment Repairer	11.52
Carnival Worker Cashier	7.62
	7.34
Desk Clerk	7.64
Embalmer	18.25
Lifeguard Mortician	8.02 18.25
	10.06
Park Attendant (Aide)	8.02
Photofinishing Worker (Photo Lab Tech., Darkroom Tech)	
Recreation Specialist	12.33
Recycling Worker	12.42
Sales Clerk	8.02
School Crossing Guard (Crosswalk Attendant)	7.32
Sport Official	8.02
Survey Party Chief (Chief of Party)	11.07
Surveying Aide	7.34
Surveying Technician (Instr. Person/Surveyor Asst./Instr.)	10.06
Swimming Pool Operator	11.02
Vending Machine Attendant	9.39
Vending Machine Repairer	10.97 9.39
Vending Machine Repairer Helper	9.39
Personal Needs Occupations	7.85
Child Care Attendant Child Care Center Clerk	10.92
Chird Care Center Clerk Chore Aid	7.26
Homemaker	10.84
Plant and System Operation Occupations	10.04
Boiler Tender	20.06
Sewage Plant Operator	18.69
Stationary Engineer	20.06
Ventilation Equipment Tender	15.18
Water Treatment Plant Operator	18.69
Protective Service Occupations	10.05
Alarm Monitor	13.68
Corrections Officer	14.49
Court Security Officer	15.36
Detention Officer	15.36
Firefighter	16.70
Guard I	8.89
Guard II	14.06
Police Officer	17.81
Stevedoring/Longshoremen Occupations	17.01
Blocker and Bracer	16.40
Hatch Tender	14.26
Line Handler	14.26
Stevedore I	14.61
Stevedore II	15.94
Technical Occupations	
Air Traffic Control Specialist, Center (2)	27.08
Air Traffic Control Specialist, Station (2)	18.67

Air Traffic Control Specialist, Terminal (2)	20.56
Archeological Technician I	14.72
Archeological Technician II	16.46
Archeological Technician III	20.39
Cartographic Technician	23.04
Civil Engineering Technician	18.45
Computer Based Training (CBT) Specialist/ Instructor	22.93
Drafter I	15.11
Drafter II	17.08
Drafter III	20.75
Drafter IV	23.45
Engineering Technician I	13.25
Engineering Technician II	14.89
Engineering Technician III	17.56
Engineering Technician IV	23.29
Engineering Technician V	27.77
Engineering Technician VI	34.46
Environmental Technician	19.51
Flight Simulator/Instructor (Pilot)	24.62
<del>-</del>	
Graphic Artist	20.73
Instructor	20.94
Laboratory Technician	17.24
Mathematical Technician	19.41
Paralegal/Legal Assistant I	12.69
Paralegal/Legal Assistant II	16.74
Paralegal/Legal Assistant III	19.80
Paralegal/Legal Assistant IV	23.96
Photooptics Technician	22.45
Technical Writer	24.52
Unexploded (UXO) Safety Escort	17.21
Unexploded (UXO) Sweep Personnel	17.21
Unexploded Ordnance (UXO) Technician I	17.21
Unexploded Ordnance (UXO) Technician II	20.82
Unexploded Ordnance (UXO) Technician III	24.95
Weather Observer, Combined Upper Air and Surface Programs	(3) 17.46
Weather Observer, Senior (3)	19.10
Weather Observer, Upper Air (3)	17.46
Transportation/ Mobile Equipment Operation Occupations	
Bus Driver	14.40
Parking and Lot Attendant	9.69
Shuttle Bus Driver	13.67
Taxi Driver	10.06
Truckdriver, Heavy Truck	18.33
Truckdriver, Light Truck	13.67
Truckdriver, Medium Truck	14.40
Truckdriver, Tractor-Trailer	18.33
	=

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$2.02 an hour or \$80.80 a week or \$350.13 a month.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 8 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE PARENTHESES AFTER THEM RECEIVE THE FOLLOWING BENEFITS (as

#### numbered):

- 1) Does not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See CFR 4.156)
- 2) APPLICABLE TO AIR TRAFFIC CONTROLLERS ONLY NIGHT DIFFERENTIAL: An employee is entitled to pay for all work performed between the hours of 6:00 P.M. and 6:00 A.M. at the rate of basic pay plus a night pay differential amounting to 10 percent of the rate of basic pay.
- 3) WEATHER OBSERVERS NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordinance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dryhouse activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges. A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordance, explosives, and incendiary material differential pay. \*\* UNIFORM ALLOWANCE \*\*

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance: The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

\*\* NOTES APPLYING TO THIS WAGE DETERMINATION \*\*

Source of Occupational Title and Descriptions:

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Third Supplement, dated March 1997, unless otherwise indicated. This publication may be obtained from the Superintendent of Documents, at 202-783-3238, or by writing to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Copies of specific job descriptions may also be obtained from the appropriate contracting officer.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).
- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour decision to the contractor.
- 6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper. When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination. 33333333333

























## **DESIGN AUTHENTICATION**

This project was designed by the St. Louis District, U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear on these project documents within the scope of their employment as required by ER 1110-1-8152.

MELVIN W. BALDUS, P.E. Chief, Engineering Division

OUNC LUGALLY

OBBYR. HUGHEY, P. Chlef, Design Branch MICHAEL R. RECTOR, P.E.

Chief, Civil Engineering/ Specifications Section

## SECTION K Representations, Certifications and Other Statements of Offerors

### 52.203-2 CERTIFICATE OF INDEPENDENT PRICE DETERMINATION (APR 1985)

- (a) The offeror certifies that --
- (1) The prices in this offer have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other offeror or competitor relating to (i) those prices, (ii) the intention to submit an offer, or (iii) the methods of factors used to calculate the prices offered:
- (2) The prices in this offer have not been and will not be knowingly disclosed by the offeror, directly or indirectly, to any other offeror or competitor before bid opening (in the case of a sealed bid solicitation) or contract award (in the case of a negotiated solicitation) unless otherwise required by law: and
- (3) No attempt has been made or will be made by the offeror to induce any other concern to submit or not to submit an offer for the purpose of restricting competition.
- (b) Each signature on the offer is considered to be a certification by the signatory that the signatory --
- (1) Is the person in the offeror's organization responsible for determining the prices offered in this bid or proposal, and that the signatory has not participated and will not participate in any action contradictory to subparagraphs (a)(1) through (a)(3) above; or
- (ii) As an authorized agent, does certify that the principals named in subdivision (b)(2)(i) above have not participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above; and
- (iii) As an agent, has not personally participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above.
- (c) If the offeror deletes or modifies subparagraph (a)(2) above, the offeror must furnish with its offer a signed statement setting forth in detail the circumstances of the disclosure.

(End of clause)

# 52.203-11 CERTIFICATION AND DISCLOSURE REGARDING PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (APR 1991)

- (a) The definitions and prohibitions contained in the clause, at FAR 52.203-12, Limitation on Payments to Influence Certain Federal Transactions, included in this solicitation, are hereby incorporated by reference in paragraph (b) of this Certification.
- (b) The offeror, by signing its offer, hereby certifies to the best of his or her knowledge and belief that on or after December 23, 1989, --

- (1) No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress on his or her behalf in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement;
- (2) If any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or an employee of a Member of Congress on his or her behalf in connection with this solicitation, the offeror shall complete and submit, with its offer, OMB standard form LLL, Disclosure of Lobbying Activities, to the Contracting Officer; and
- (3) He or she will include the language of this certification in all subcontract awards at any tier and require that all recipients of subcontract awards in excess of \$100,000 shall certify and disclose accordingly.
- (c) Submission of this certification and disclosure is a prerequisite for making or entering into this contract imposed by section 1352, title 31, United States Code. Any person who makes an expenditure prohibited under this provision, shall be subject to a civil penalty of not less than \$10,000, and not more than \$100,000, for each such failure.

(End of provision)

#### 52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

Common parent, as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

Taxpayer Identification Number (TIN), as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

- (b) All offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting contract is subject to the payment reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.
- (c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(d) Taxpayer Identification Number (TIN).
TIN:
TIN has been applied for.
TIN is not required because:
Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;
Offeror is an agency or instrumentality of a foreign government;
Offeror is an agency or instrumentality of the Federal Government.
(e) Type of organization.
Sole proprietorship;
Partnership;
Corporate entity (not tax-exempt);
Corporate entity (tax-exempt);
Government entity (Federal, State, or local);
Foreign government;
International organization per 26 CFR 1.6049-4;
Other
(f) Common parent.
Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision.
Name and TIN of common parent:
Name
TIN
(End of provision)
52.209-5 CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS (APR 2001)
(a)(1) The Offeror certifies, to the best of its knowledge and belief, that
(i) The Offeror and/or any of its Principals

- (A) Are ( ) are not ( ) presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;
- (B) Have ( ) have not ( ), within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and
- (C) Are ( ) are not ( ) presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in subdivision (a)(1)(i)(D) of this provision.
- (ii) The Offeror has ( ) has not ( ), within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.
- (D) Have ( ) have not ( ), within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and
- (E) Are ( ) are not ( ) presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in subdivision (a)(1)(i)(B) of this provision.
- (2) "Principals," for the purposes of this certification, means officers; directors; owners; partners; and, persons having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a subsidiary, division, or business segment, and similar positions).

THIS CERTIFICATION CONCERNS A MATTER WITHIN THE JURISDICTION OF AN AGENCY OF THE UNITED STATES AND THE MAKING OF A FALSE, FICTITIOUS, OR FRAUDULENT CERTIFICATION MAY RENDER THE MAKER SUBJECT TO PROSECUTION UNDER SECTION 1001. TITLE 18. UNITED STATES CODE.

- (b) The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- (c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror nonresponsible.
- (d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- (e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government, the

Contracting Officer may terminate the contract resulting from this solicitation for default.

(End of provision)

## 52.219-1 SMALL BUSINESS PROGRAM REPRESENTATIONS (OCT 2000)

- (a)(1) The North American Industry Classification System (NAICS) code for this acquisition is 562910 [formerly SIC 8744].
- (2) The small business size standard is 500 employees.
- (3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.
- (b) Representations. (1) The offeror represents as part of its offer that it ( ) is, ( ) is not a small business concern.
- (2) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents, for general statistical purposes, that it ( ) is, ( ) is not a small disadvantaged business concern as defined in 13 CFR 124-1002.
- (3) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it ( ) is, ( ) is not a women-owned small business concern.
- (4) [Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.] The offeror represents as part of its offer that it [ ] is, [ ] is not a veteran-owned small business concern.
- (5) [Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) of this provision.] The offeror represents as part of its offer that it [ ] is, [ ] is not a service-disabled veteran-owned small business concern.
- (c) Definitions. As used in this provision—

"Service-disabled veteran-owned small business concern--

- (1) Means a small business concern--
- (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and
- (ii) The management and daily business operations of which are controlled by one or more servicedisabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.
- (2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern" means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.

"Veteran-owned small business concern" means a small business concern--

- (1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and
- (2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned small business concern" means a small business concern—

- (1) Which is a least 51 percent owned by one or more women or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and
- (2) Whose management and daily business operations are controlled by one or more women.
- (d) Notice. (1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.
- (2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged, or women-owned small business concern in order to obtain a contract to be awarded under the preference programs established pursuant to section 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall--
- (i) Be punished by imposition of fine, imprisonment, or both;
- (ii) Be subject to administrative remedies, including suspension and debarment; and
- (iii) Be ineligible for participation in programs conducted under the authority of the Act.

(End of provision)

## 52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FEB 1999)

The offeror represents that --

(	a)	[ ]	] It	: h	ıas,	[	] ł	nas	not	pa	ırtic	cipa	atec	l in	а	prev	/ious	С	ontra	ct (	or	su	bcc	nt	ract	t sı	ubj	ect	to	the	Eq	ual
(	Ͻр	po	rtu	ın	ity (	cla	us	е о	f th	is s	soli	cita	atio	n;																		

- (b) [ ] It has, [ ] has not, filed all required compliance reports; and
- (c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

(End of provision)

## 52.222-25 AFFIRMATIVE ACTION COMPLIANCE (FEB 1984)

The offeror represents that

- (a) [ ] it has developed and has on file, [ ] has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or
- (b) [ ] has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

(End of provision)

252.209-7001 DISCLOSURE OF OWNERSHIP OR CONTROL BY THE GOVERNMENT OF A TERRORIST COUNTRY (MAR 1998)

(a) "Definitions."

As used in this provision --

- (a) "Government of a terrorist country" includes the state and the government of a terrorist country, as well as any political subdivision, agency, or instrumentality thereof.
- (2) "Terrorist country" means a country determined by the Secretary of State, under section 6(j)(1)(A) of the Export Administration Act of 1979 (50 U.S.C. App. 2405(j)(i)(A)), to be a country the government of which has repeatedly provided support for such acts of international terrorism. As of the date of this provision, terrorist countries include: Cuba, Iran, Iraq, Libya, North Korea, Sudan, and Syria.
- (3) "Significant interest" means --
- (i) Ownership of or beneficial interest in 5 percent or more of the firm's or subsidiary's securities. Beneficial interest includes holding 5 percent or more of any class of the firm's securities in "nominee shares," "street names," or some other method of holding securities that does not disclose the beneficial owner:
- (ii) Holding a management position in the firm, such as a director or officer;
- (iii) Ability to control or influence the election, appointment, or tenure of directors or officers in the firm:
- (iv) Ownership of 10 percent or more of the assets of a firm such as equipment, buildings, real estate, or other tangible assets of the firm; or
- (v) Holding 50 percent or more of the indebtness of a firm.
- (b) "Prohibition on award."

In accordance with 10 U.S.C. 2327, no contract may be awarded to a firm or a subsidiary of a firm if the government of a terrorist country has a significant interest in the firm or subsidiary or, in the case of a subsidiary, the firm that owns the subsidiary, unless a waiver is granted by the Secretary of Defense.

(c) "Disclosure."

If the government of a terrorist country has a significant interest in the Offeror or a subsidiary of the Offeror, the Offeror shall disclosure such interest in an attachment to its offer. If the Offeror is a subsidiary, it shall also disclose any significant interest the government of a terrorist country has in any firm that owns or controls the subsidiary. The disclosure shall include --

- (1) Identification of each government holding a significant interest; and
- (2) A description of the significant interest held by each government.

(End of provision)

### 252.247-7022 REPRESENTATION OF EXTENT OF TRANSPORTATION BY SEA (AUG 1992)

- (a) The Offeror shall indicate by checking the appropriate blank in paragraph (b) of this provision whether transportation of supplies by sea is anticipated under the resultant contract. The term supplies is defined in the Transportation of Supplies by Sea clause of this solicitation.
- (b) Representation. The Offeror represents that it:
- \_\_\_\_ (1) Does anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.
- \_\_\_\_ (2) Does not anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.
- (c) Any contract resulting from this solicitation will include the Transportation of Supplies by Sea clause. If the Offeror represents that it will not use ocean transportation, the resulting contract will also include the Defense FAR Supplement clause at 252.247-7024, Notification of Transportation of Supplies by Sea.

(End of provision)

## SECTION L Instructions, Conditions and Notices to Bidders

### CHANGES IN SPECIFICATIONS

The right is reserved, as the interest of the Government may require, to revise or amend the specifications and/or drawings prior to the date set for receipt of proposals. Such revisions and amendments, if any, will be announced by an amendment or amendments to the solicitation. Copies of such amendments as may be issued will be furnished to the prospective offeror. If the revisions and amendments are of a nature which require material changes in quantities, or prices bid, or both, the date set for receipt of proposals may be postponed by such number of days as in the opinion of the Contracting Officer will enable the offeror to revise their proposal. In such cases the amendment will include an announcement of the new date for receipt of proposals.

(End of Provision)

#### CLARIFICATION OF REQUIREMENT

Prospective offerors should carefully examine the solicitation and fully inform themselves as to the conditions and matters which can in any way affect the work or the cost thereof. Should a prospective offeror find discrepancies in, or omissions from, the solicitation or other documents, or should he/she be in doubt as to their meaning, he/she should at once notify Ms. Jo Ann C. Moritz, Area Code 314-331-8507, and obtain clarification prior to submitting a proposal.

(End of Provision)

#### 52.204-6 DATA UNIVERSAL NUMBERING SYSTEM (DUNS) NUMBER (JUN 99)

- (a) Contractor identification is essential for complying with statutory contract reporting requirements. Therefore, the offeror is requested to enter, in the block with its name and address on the Standard Form 33 or similar document, the annotation "DUNS" followed by the DUNS number which identifies the offeror's name and address exactly as stated in the offer.
- (b) If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one. A DUNS number will be provided immediately by telephone at no charge to the offeror. For information on obtaining a DUNS number, the offeror, if located within the United States, should call Dun and Bradstreet at 1-800-333-0505. The offeror should be prepared to provide the following information:
- (1) Company name.
- (2) Company address.
- (3) Company telephone number.
- (4) Line of business.
- (5) Chief executive officer/key manager.
- (6) Date the company was started.
- (7) Number of people employed by the company.
- (8) Company affiliation.

(c) Offerors located outside the United States may obtain the location and phone number of the local Dun and Bradstreet Information Services office from the Internet Home Page at <a href="http://www.customerservice@dnb.com/">http://www.customerservice@dnb.com/</a>. If an offeror is unable to locate a local service center, it may send an e-mail to Dun and Bradstreet at globalinfo@dnb.com.

(End of provision)

## 52.216-1 TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a Firm Fixed Price contract resulting from this solicitation.

(End of clause)

#### 52.237-1 SITE VISIT (APR 1984)

(a) Offerors or quoters are urged and expected to inspect the site where services are to be performed and to satisfy themselves regarding all general and local conditions that may affect the cost of contract performance, to the extent that the information is reasonably obtainable. In no event shall failure to inspect the site constitute grounds for a claim after contract award.

### 252.204-7001 COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING (AUG 1999)

- (a) The offeror is requested to enter its CAGE code on its offer in the block with its name and address. The CAGE code entered must be for that name and address. Enter "CAGE" before the number.
- (b) If the offeror does not have a CAGE code, it may ask the Contracting Officer to request one from the Defense Logistics Information Service (DLIS). The Contracting Officer will--
- (1) Ask the Contractor to complete section B of a DD Form 2051, Request for Assignment of a Commercial and Government Entity (CAGE) Code;
- (2) Complete section A and forward the form to DLIS; and
- (3) Notify the Contractor of its assigned CAGE code.
- (c) Do not delay submission of the offer pending receipt of a CAGE code.

(End of provision)

## 252.204-7004 REQUIRED CENTRAL CONTRACTOR REGISTRATION.(MAR 2000)

(a) Definitions.

As used in this clause--

- (1) Central Contractor Registration (CCR) database means the primary DoD repository for contractor information required for the conduct of business with DoD.
- (2) Data Universal Numbering System (DUNS) number means the 9-digit number assigned by Dun and Bradstreet Information Services to identify unique business entities.

- (3) Data Universal Numbering System +4 (DUNS+4) number means the DUNS number assigned by Dun and Bradstreet plus a 4-digit suffix that may be assigned by a parent (controlling) business concern. This 4-digit suffix may be assigned at the discretion of the parent business concern for such purposes as identifying subunits or affiliates of the parent business concern.
- (4) Registered in the CCR database means that all mandatory information, including the DUNS number or the DUNS+4 number, if applicable, and the corresponding Commercial and Government Entity (CAGE) code, is in the CCR database; the DUNS number and the CAGE code have been validated; and all edits have been successfully completed.
- (b)(1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee must be registered in the CCR database prior to award, during performance, and through final payment of any contract resulting from this solicitation, except for awards to foreign vendors for work to be performed outside the United States.
- (2) The offeror shall provide its DUNS or, if applicable, its DUNS+4 number with its offer, which will be used by the Contracting Officer to verify that the offeror is registered in the CCR database.
- (3) Lack of registration in the CCR database will make an offeror ineligible for award.
- (4) DoD has established a goal of registering an applicant in the CCR database within 48 hours after receipt of a complete and accurate application via the Internet. However, registration of an applicant submitting an application through a method other than the Internet may take up to 30 days. Therefore, offerors that are not registered should consider applying for registration immediately upon receipt of this solicitation.
- (c) The Contractor is responsible for the accuracy and completeness of the data within the CCR, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to confirm on an annual basis that its information in the CCR database is accurate and complete.
- (d) Offerors and contractors may obtain information on registration and annual confirmation requirements by calling 1-888-227-2423, or via the Internet at http://www.ccr2000.com.

(End of clause)